DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
3000 MARINE CORPS PENTAGON
WASHINGTON, DC 20350-3000

NAVMC 3500.105C
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From: Commandant of the Marine Corps
To: Distribution List

Subj: SIGNALS INTELLIGENCE TRAINING AND READINESS MANUAL

Ref: (a) MCO P3500.72A

Encl: (1) SIGINT T&R Manual

1. Purpose. Per the reference, this Training and Readiness (T&R) Manual, contained in enclosure (1), establishes training standards, regulations, and policies regarding the training of Marines in the Intelligence and Ground sensor community.

2. Cancellation. NAVMC 3500.105B

3. Scope. Highlights of the major changes included in this Manual are:

a. Chapter 1 adjusted to reflect current organization of this T&R Manual.

b. Chapter 2 revised to reflect the communities approved and published Marine Corps Tasks.

c. Chapter 3 revised to present clear and concise information on community events and functional areas.

d. Chapter 4 revised to reduce the overall size of the manual and consolidate all foundational occupational field events.

e. Chapter 5 revised the initial training setting for all events from managed on the job training to a formal setting.

f. Chapter 6 added the cyber function area and deleted events in order to create chapter four.

g. Chapter 7 created four events to meet current operational requirements.

h. Chapter 8 removed reconnaissance events from manual, NAVMC 3500.55 is the authoritative source for all ground reconnaissance.

i. Chapter 9 incorporated functional areas of cyber, operations, and signals intelligence/electronic warfare.

j. Chapter 10 had no significant changes.

k. Chapter 11 created to provide individual events for Military Occupational Specialty (MOS) 2641 which replaced former the MOSs of 2671, 2672, 2673, and 2674.

l. Chapter 12 incorporated functional areas of data, intelligence communication architecture, and network administration to meet operations requirements.

m. Chapter 13 created to provide individual events for the new 2652 necessary MOS.

n. Chapter 14 created to provide individual events for the new 2653 necessary MOS.

o. Chapter 15 created to provide individual events for the new 2659 primary MOS.

p. Chapter 16 revised the initial training setting for all events from managed on the job training to a formal setting.

q. Chapter 17 had no changes.

4. Information. Commanding General (CG), Training and Education Command (TECOM) will update this T&R Manual as necessary to provide current and relevant training standards to commanders. All questions pertaining to the Marine Corps Ground T&R Program and unit training management should be directed to: CG, TECOM, Policy and Standards Division (C 466), 1019 Elliot Road, Quantico, Virginia 22134.

5. Command. This Manual is applicable to the Marine Corps Total Force.

6. Certification. Reviewed and approved this date.

W. F. MULLEN III
By direction

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DEPARTMENT OF THE NAVY
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NAVMC 3500.105C Ch 1

From: Commandant of the Marine Corps
To: Distribution List

Subj: SIGNALS INTELLIGENCE TRAINING AND READINESS MANUAL

Ref: (a) MCO P3500.72A

Encl: (1) New chapter 4 insert to NAVMC 3500.105C
(2) New chapter 11 insert to NAVMC 3500.105C

1. Situation. To transmit new chapter inserts into the basic manual NAVMC 3500.105C.

2. Mission. Chapter 4 contains changes to common 1000 and 2000-level individual Training and Readiness (T&R) events for military occupational specialties (MOS) 2600 Signals Intelligence Operator. Chapter 11 contains changes to the 1000 and 2000-level individual T&R events for MOS 2631, Signals Intelligence Electronics Warfare Analyst.

3. Execution. Remove chapters 4 and 11 and replace with the corresponding enclosures.

4. Information. The revision was a result of a virtual T&R manual working group conducted 31 August 2020 through 4 September 2020.

5. Filing Instructions. This change transmittal will be filed immediately following the signature page of the basic manual.

LEWIS A. CRAPAROTTA
Commanding General
Training and Education Command
By direction

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RECORD OF CHANGES

Log completed change action as indicated.

Change Number	Date of Change	Date Entered	Signature of Person Incorporating Change

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CHAPTER 1

OVERVIEW

1000. INTRODUCTION

1. The training and readiness (T&R) program is the Corps' primary tool for planning, conducting and evaluating training, and assessing training readiness. Subject matter experts (SME) from the Fleet Marine Force (FMF) developed core capability mission essential task lists (METL) for ground communities derived from the Marine Corps task list. This T&R Manual is built around these METLs and other related Marine Corps tasks (MCT). All events contained in this Manual relate directly to these METLs and MCTs. This comprehensive T&R program will help to ensure the Marine Corps continues to improve its combat readiness by training more efficiently and effectively. Ultimately, this will enhance the Marine Corps' ability to accomplish real-world missions.

2. This T&R Manual contains the collective and individual training requirements to prepare units to accomplish their combat mission. This T&R Manual is not intended to be an encyclopedia that contains every minute detail of how to accomplish training. Instead, it identifies the minimum standards that Marines must be able to perform in combat. This T&R Manual is a fundamental tool for commanders to build and maintain unit combat readiness. Using this tool, leaders can construct and execute an effective training plan that supports the unit's METL. More detailed information on the Marine Corps ground T&R program is found in reference (a).

3. This T&R Manual is designed for use by unit commanders to determine pre-deployment training requirements in preparation for training and for formal schools and training detachments to create programs of instruction. This manual focuses on individual and collective tasks performed by FMF units and supervised by personnel in the performance of unit mission essential task(s) (MET).

1001. UNIT TRAINING

1. The training of Marines to perform as an integrated unit in combat lies at the heart of the T&R program. Unit and individual readiness are directly related. Individual training and the mastery of individual core skills serve as the building blocks for unit combat readiness. A Marine's ability to perform critical skills required in combat is essential.

2. Commanders will ensure that all training is focused on their combat mission. Unit training should focus on achieving proficiency in the unit METL. This T&R Manual is a tool to help develop the unit's training plan based on the unit METL, as approved by their higher commander and reported in the Defense Readiness Reporting System (DRRS). Training will support the unit METL and be designed to meet T&R standards. Commanders at all levels are responsible for effective combat training. The conduct of standards based training consistent with Marine Corps T&R standards cannot be over emphasized.

1002. UNIT TRAINING MANAGEMENT

1. Effective unit training management (UTM) focuses the overall organization on development of training plans based on the unit METL and standards-based community T&R events. This is accomplished in a manner that maximizes training results and focuses the training priorities of the unit in preparation for the conduct of its mission.

2. Unit training management techniques, described in reference MCO 1553.3_, MCTP 8-10A, and MCTP 8-10B provide commanders with the requisite tools and techniques to analyze, design, develop, implement, and evaluate the training of their unit. To maintain an efficient and effective training program, leaders at every level must understand and implement UTM.

1003. SUSTAINMENT AND EVALUATION OF TRAINING

1. Marines are expected to maintain proficiency in the training events for their military occupational specialty (MOS) at the appropriate grade or billet to which assigned. Leaders are responsible for recording the training achievements of their Marines. For collective or individual training events not executed and evaluated as part of the daily routine, leaders must ensure proficiency is sustained by requiring retraining of each event at or before expiration of the designated sustainment interval.

2. The evaluation of training is necessary to properly prepare Marines for combat. Evaluations are either formal or informal, and performed by members of the unit (internal evaluation) or from an external command (external evaluation). The purpose of formal and informal evaluation is to provide commanders with a process to determine a unit's/Marine's proficiency in the tasks that must be performed in combat. Informal evaluations are conducted during every training evolution. Formal evaluations are often scenario-based, focused on the unit's METs, based on collective training standards, and usually conducted during higher-level collective events.

3. Evaluation is a continuous process that is integral to training management and is conducted by leaders at every level and during all phases of planning and the conduct of training. To ensure training is efficient and effective, evaluation is an integral part of the training plan. Ultimately, leaders remain responsible for determining if the training was effective.

1004. ORGANIZATION. This Community T&R Manual is comprised of 17 chapters and 2 appendices. Chapter 1 is an overview of the ground T&R program. Chapter 2 lists the core METs/MCTs supported by the Community, which are used as part of DRRS. Chapter 3 contains collective events. Chapters 4 through 17 contain individual events specific to a particular MOS and/or billet, as noted. Appendix A contains acronyms; Appendix B contains terms and definitions.

1005. T&R EVENT CODING

1. Event Code. The event code is an up to 4-4-4 alphanumeric character set:

a. First up to 4 characters indicate MOS or community (e.g., 0321, 1812 or INTL)

b. Second up to 4 characters indicate functional or duty area (e.g. DEF, FSPT, MVMT, etc.)

c. Third 4 characters indicate the unit size and supported unit, if applicable (1000 through 9000), and sequence. Figure 1-1 shows the relationship of unit size to event code. NOTE: The titles for the various echelons are for example only, and are not exclusive. For example: 4000-level events are appropriate for section-level events as noted, but also for squad-level events.

Collective Training **Command Element**	**Collective Training** **Regiment/Group**	**Collective Training** **Battalion/Squadron**
9000-level	8000-level	7000-level
Collective Training **Company**	**Collective Training** **Platoon**	**Collective Training** **Squad**
6000-level	5000-level	4000-level
Collective Training **Team/Section/Crew**	**Individual Training** **Skills Progression** **MOJT, Advanced Level Schools** **(Core Plus Skills)**	**Individual Training** **Entry-Level** **Formal School Training** **(Core Skills)**
3000-level	2000-level	1000-level

Figure. 1-1 T&R Event Levels

2. Grouping. Categorizing events with the use of a recognizable code makes the type of skill or capability being referenced fairly obvious. Examples include: PAT for patrolling events, DEF for events in the defense, FSPT for events related to fire support, etc. There is no special significance to the functional areas, but they should be intuitive to make it as easy as possible for the T&R user to find events. When organizing this T&R Manual, functional areas are alphabetized then the associated events are numbered. The events will be numbered based upon the introduction of each new functional area, allowing up to "999" events. For example: if there are seven administrative events 4431 occupational field (OccFld), then the events should start 4431-ADMN-1001 and run through 1007. Next, the bulk fuel events, BUFL should start at 4431-BUFL-1001.

3. Sequencing. A numerical code is assigned to each collective (3000-9000 level) or individual (1000-2000 level) training event. The first number identifies the size of the unit performing the event, as depicted in figure 1-1. Exception: Events that relate to staff planning, to conduct of a command operations center, or to staff level decision making processes will be numbered according to the level of the unit to which the staff belongs. For example: an infantry battalion staff conducting planning for an offensive attack would be labeled as INF-PLAN-7001 even though the entire battalion is not actively involved in the planning of the operation. T&R

event sequence numbers that begin with "9" are reserved for Marine air-ground task force (MAGTF) command element events. An example of event coding is displayed in figure 1-2.

Functional Area

MOS/Community--------> ####-**####**-**#**### <-1st event in sequence

Event level

Figure 1-2. T&R Event Coding

1006. T&R EVENT COMPOSITION

1. An event contained within a T&R manual is a collective or individual training standard. This section explains each of the components that make up the T&R event. These items will be included in all of the events in each T&R manual. Community-based T&R manuals may have several additional components not found in unit-based T&R manuals. The event condition, event title (behavior) and event standard should be read together as a grammatical sentence.

2. An example of a collective T&R event is provided in figure 1-3 and an example of an individual T&R event is provided in figure 1-4. Events shown in figures are for illustrative purposes only and are not actual T&R events.

XXXX-XXXX-####: Provide interior guard

SUPPORTED MET(S): MCT #.#.#

EVALUATION CODED: YES/NO SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: Text

CONDITION: Text

STANDARD: Text

EVENT COMPONENTS:
1. Event component.
2. Event component.
3. Event component.

REFERENCES:
1. Reference
2. Reference
3. Reference

PREREQUISITE EVENTS:
XXXX-XXXX-#### XXXX-XXXX-####

INTERNAL SUPPORTED:
XXXX-XXXX-#### XXXX-XXXX-####

INTERNAL SUPPORTING:

XXXX-XXXX-#### XXXX-XXXX-####

SUPPORT REQUIREMENTS:

  EQUIPMENT: XXX

MISCELLANEOUS: XXX

  ADMINISTRATIVE INSTRUCTIONS: XXX

Figure 1-3. Example of a Collective T&R Event

XXXX-XXXX-####: Stand a sentry post

EVALUATION CODED: NO SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: Text

MOS PERFORMING: ####, ####

INITIAL TRAINING SETTING: XXX

CONDITION: Text

STANDARD: Text

PERFORMANCE STEPS:
1. Event component.
2. Event component.
3. Event component.

REFERENCES:
1. Reference
2. Reference
3. Reference

PREREQUISITE EVENTS:
XXXX-XXXX-#### XXXX-XXXX-####

INTERNAL SUPPORTED:
XXXX-XXXX-#### XXXX-XXXX-####

INTERNAL SUPPORTING:
XXXX-XXXX-#### XXXX-XXXX-####

SUPPORT REQUIREMENTS:

  EQUIPMENT: XXX

MISCELLANEOUS: XXX

  ADMINISTRATIVE INSTRUCTIONS: XXX

Figure 1-4. Example of an Individual Event

1. Event Code. The event code is explained in paragraph 1005.

2. Title. The name of the event. The event title contains one action verb and one object.

3. Evaluation-Coded (E-Coded). Collective events categorize the capabilities that a given unit may be expected to perform. There are some collective events that the Marine Corps has determined that a unit MUST be able to perform, if that unit is to be considered fully ready for operations. These E-Coded events represent the irreducible minimum or the floor of readiness for a unit. These E-Coded events are derived from the training measures of effectiveness (MOE) for the METs for units that must report readiness in DRRS. It would seem intuitive that most E-Coded events would be for battalion sized units and higher since those are the units that report in DRRS. However, if the Marine Corps has determined that the readiness of a subordinate, supporting unit to accomplish a particular collective event is vital to the accomplishment of the supported unit's MET, then that lower echelon collective event is E-Coded.

4. Supported MET(s). List all METs that are supported by the training event in the judgment of the OccFld drafting the T&R manual, even if those events are not listed as MOE in a MET.

5. Sustainment Interval. It is critical to understand the intent of the sustainment interval so training time is not wasted with duplicated training. Sustainment interval is expressed in number of months. Most individual T&R events and many lower level collective events are never out of sustainment because they are either part of a Marine's daily routine, or are frequently executed within the sustainment interval. Sustainment interval is relevant when an individual or collective event is not observed and evaluated within the sustainment period, has atrophied, and therefore retraining and evaluation is required.

6. Billet/MOS. Each individual training event will contain a billet code and/or MOS that designates who is responsible for performing that event and any corresponding formal course required for that billet. Each commander has the flexibility to shift responsibilities based on the organization of his command. These codes are based on recommendations from the collective subject matter expertise that developed this manual and are listed for each event.

7. Grade. The grade field indicates the rank at which Marines are required to complete the event.

8. Description. This field allows T&R developers to include an explanation of event purpose, objectives, goals, and requirements. It is a general description of an action requiring learned skills and knowledge, i.e., engage fixed target with crew-served weapons. This is an optional field for individual events but is required for collective events. This field can be of great value guiding a formal school or FMF unit trying to discern the intent behind an event that might not be readily apparent.

9. Condition. Condition refers to the constraints that may affect event performance in a real-world environment. It indicates what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the task is to be performed, and any specific cues or indicators to which the performer must respond. Commanders can modify the conditions of the event to best prepare their Marines to accomplish the assigned mission (e.g. in a desert environment; in a mountain environment;

etc.). When resources or safety requirements limit the conditions, this should be stated. The content of the condition should be included in the event on a "by exception" basis. If there exists an assumption regarding the conditions under which all or most of the events in the manual will be performed, then only those additional or exceptional items required should be listed in the condition. The common conditions under which all the events in a chapter will be executed will be listed as a separate paragraph at the beginning of the chapter.

10. Standard. The performance standard indicates the basis for judging the effectiveness of the performance. It consists of a carefully worded statement that identifies the proficiency level expected when the task is performed. The standard provides the minimum acceptable performance parameters and must be strictly adhered to. The standard for collective events will likely be general, describing the desired end-state or purpose of the event. The standard for individual events will be objective, quantifiable, and readily observable. Standards will more specifically describe to what proficiency level, specified in terms of accuracy, completeness, time required, and sequencing the event is to be accomplished. These guidelines can be summarized in the acronym "ACTS" (Accuracy Completeness Time Sequence). In no cases will "per the reference" or "per/in accordance with commander's intent" be used as a stand-alone standard.

11. Event Components/Performance Steps. Description of the actions that the event is composed of, or a list of subordinate, included T&R event and event descriptions. The event components help the user determine what must be accomplished and the proper sequence of execution of subordinate events. Event components are used for collective events; performance steps are used for individual events.

a. The event components and performance steps will be consciously written so that they may be employed as performance evaluation check lists by the FMF. They must be sequenced to demonstrate the building block approach to training.

b. Event components may be events one individual in the unit performs, events that small groups in the unit perform, or events involving the entire unit.

12. Chained Events. Enables unit leaders to effectively identify prerequisite, supporting, and supported events that ultimately support MCTs/METs. Supported events are chained to supporting events to enable the accomplishment of the supported event to standard and therefore are considered "chained". The completion of identified supported events can be utilized to update sustainment interval credit for supporting events, based on the assessment of the commander.

13. Prerequisite Events. Prerequisites are academic training or other T&R events that must be completed prior to attempting the task. They are lower-level events or tasks that give the individual/unit the skills required to accomplish the event. They can also be planning steps, administrative requirements, or specific parameters that build toward mission accomplishment.

14. Supported Event. An event whose performance is inherently supported by the performance of one or more supporting events. A supported event will be

classified as internal supported if it has been developed specifically for the community. A supported event that has been chained to an event from an external community T&R will be classified as external supported.

15. Supporting Event. An event whose performance inherently supports the performance of a supported event. A supporting event will be classified as internal supporting if it has been developed specifically for the community. A supporting event that has been chained to a community event from an external community T&R will be classified as external supporting.

16. Initial Training Setting. All individual events will designate the setting at which the skill is first taught, either formally, managed on the job training (MOJT) within the FMF, or via a distance learning product (DL).

17. References. The training references shall be utilized to determine task performance steps. They assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion. T&R manuals are designed to be a training outline, not to replicate or replace doctrinal publications, reference publications or technical manuals. References are key to developing detailed lesson plans, determining grading criteria, and ensuring standardization of training. For individual events only one authoritative reference is required.

18. Distance Learning Products. Distance learning products include: Individual multimedia instruction, computer-based training, MarineNet, etc. This notation is included when, in the opinion of the T&R manual group charter in consultation with the MAGTF T&R Standards Division representative, the event can be taught via one of these media vice attending a formal course of instruction or receiving MOJT.

19. Support Requirements. This is a list of the external and internal support the unit and Marines will need to complete the event. This is a key section in the overall T&R effort, as resources will eventually be tied directly to the training towards METS. Future efforts to attain and allocate resources will be based on the requirements outlined in the T&R manual. The list includes, but is not limited to:

- Range(s)/Training Area
- Ordnance
- Equipment
- Materials
- Other Units/Personnel

The ordnance requirements for one year of training for the events in the T&R will be aggregated into a table contained in an appendix to the T&R. The task analyst and the OccFld representatives will be careful not to "double count" ammunition that might be employed in the performance of collective and individual events that are chained.

20. Suitability of Simulation/Simulators/DL products. The following "Suitability and Sequence" codes listed in figure 1-5 have been developed to communicate characteristics for employing simulations during training. Units of measure have been assigned based on the amount of time it takes a Marine or unit to train to task utilizing a particular simulator. Suitability and sequence codes are captured in the event title in a parenthetical remark, as well as within the simulation field of the T&R event. The simulation field

also identifies the type of simulation, units of measure, and any other pertinent information.

Code	Requirement
L	The event can only be trained to standard in a Live environment. Any event assessed as "NO" for Simulatab1e was coded "L."
P	The event must be performed to standard in simulator as a PREREQUISITE to live fire qualification as per current doctrine, policy, or T&R manual.
S/L	Event must be trained to standard in simulation then live unless simulation capacity is not available, then live only training is appropriate.
L/S	Event must be trained to standard in a live environment then simulation unless simulation capacity is not available, then live only training is appropriate.
S	Event can ONLY be conducted to standard and qualification in simulator.

Figure 1-5. Suitability and sequence codes

a. Training simulation capabilities offer an opportunity to build and sustain proficiency while achieving and/or maintaining certain economies. Commanders should take into consideration simulation tools as a matter of course when designing training.

b. Simulation Terms:

(1) Simulation: A model of a system animated discretely or continuously over a period of time. A simulation may be closed-loop (i.e., it executes based in initial inputs without human intervention), or it may be open-loop (i.e., human input to alter the variables in the system during execution is allowed). A simulation is an approximation of how the modeled system will behave over time. Simulations are constructed based on verified and validated mathematical models of actual systems. Simulations can be very simple or complex depending on the degree of fidelity and resolution needed to understand the behavior of a system.

(2) Simulator: A simulator is the physical apparatus employed as the interface for humans to interact with a model or observe its output. A simulator has input controls and outputs in the form of human sensory stimuli (visual, auditory, olfactory, tactile/haptic, and taste). For instance, some of the features of the vehicle cab (the seat, steering wheel, turn signals, accelerator pedal, brakes, and windshield) and projection screen. Both the vehicle cab and projection screen are the interface by which a human being interacts with the simulated environment of a driving a vehicle and observe the outputs of the mathematical models of vehicle dynamics.

(3) Model: A mathematical representation of the behavior (i.e., shows the behavior of projectiles, combat simulations, etc.) of a system at a distinct point in time.

(4) Live: Real people operates real systems to include both live people operating real platforms or systems on a training range and battle staffs from joint, component or service tactical headquarters using real world command and control systems.

(5) Virtual: Real people operating simulated systems. Virtual simulations inject humans-in-the-loop in a central role by exercising motor control skills (e.g., flying an air platform simulator, engaging targets in indoor simulated marksmanship trainer), decision skills, and/or communication skills.

(6) Constructive: Models and simulations that involve simulated people operating simulated systems (i.e., MAGTF Tactical Warfare Simulation). Real people make inputs to such simulations, but are not involved in determining the outcomes.

(7) Live, Virtual and Constructive (LVC) Training Environment: Defined by combining any of the three training domains LVC to create a common operational environment, by which units can interact across LVC domains as though they are physically located in the same operational environment.

(8) Distance Learning: Any instruction and evaluation provided through a variety of DL delivery systems (i.e., MarineNet) where the students and instructors are separated by time and/or location.

c. Figure 1-6 depicts an event title with simulation code and simulation and/or simulators that can be used, as displayed within a T&R event.

XXXX-XXX-XXXX: Call for indirect fire using the grid method (L/S)

SUPPORT REQUIREMENTS:

SIMULATION EVALUATION:

SIMULATED	SUITABILITY	SIMULATOR	UNIT OF MEASURE	HOURS	PM
Yes	L/S	ODS	Marine Hours	12	Y

Figure 1-6. Example of simulation/simulators displayed within a T&R event

21. Miscellaneous

a. This field provides space for any additional information that will assist in the planning and execution of the event. Units and formal learning centers are cautioned not to disregard this information or to consider the information of lesser importance than what is contained in other parts of the T&R event. Miscellaneous fields provide an opportunity for the drafters of the T&R event to communicate vital information that might not fit neatly into any other available field. The list may include, but is not limited to:

- Admin Instructions
- Special Personnel Certifications
- Equipment Operating Hours
- Road Miles

1007. COMBAT READINESS PERCENTAGE (CRP)

1. The Marine Corps ground T&R program includes processes to assess readiness of units and individual Marines. Every unit in the Marine Corps maintains a basic level of readiness based on the training and experience of

the Marines in the unit. Even units that never trained together are capable of accomplishing some portion of their missions. Combat readiness assessment does not associate a quantitative value for this baseline of readiness, but uses a "Combat Readiness Percentage" as a method to provide a concise descriptor of the recent training accomplishments of units and Marines.

2. Combat readiness percentage is the percentage of required training events that a unit or Marine accomplishes within specified sustainment intervals.

3. Unit combat readiness is assessed as a percentage of the successfully completed and current (within sustainment interval) key training events called E-Coded Events. E-Coded events and unit CRP calculation are described in follow-on paragraphs. The CRP achieved through the completion of E-Coded Events is directly relevant to readiness assessment in DRRS.

1008. CRP CALCULATION

1. Collective training begins at the 3000-level (team, crew, or equivalent). Unit training plans are designed to accomplish the events that support the unit METL while simultaneously sustaining proficiency in individual core skills. E-Coded collective events are the only events that contribute to unit CRP. This is done to assist commanders in prioritizing the training toward the METL, taking into account resource, time, and personnel constraints.

2. Unit CRP increases after the completion of E-Coded events. The number of E-Coded events for the MET determines the value of each E-Coded event. For example, if there are 4 E-Coded events for a MET, each is worth 25% of MET CRP. The MET CRP is calculated by adding the percentage of each completed and current (within sustainment interval) E-Coded training event. The percentage for each MET is calculated the same way and all are added together and divided by the number of METS to determine unit CRP. For ease of calculation, we will say that each MET has four E-Coded events, each contributing 25% towards the completion of the MET. If the unit has completed and is current on three of the four E-Coded events for a given MET, then they have completed 75% of the MET. The CRP for each MET is added together and divided by the number of METS to get unit CRP; unit CRP is the average of MET CRP.

For Example:

MET 1: 75% complete (3 of 4 E-Coded events trained)
MET 2: 100% complete (6 of 6 E-Coded events trained)
MET 3: 25% complete (1 of 4 E-Coded events trained)
MET 4: 50% complete (2 of 4 E-Coded events trained)
MET 5: 75% complete (3 of 4 E-Coded events trained)

To get unit CRP, simply add the CRP for each MET and divide by the number of METS:

MET CRP: 75 + 100 + 25 + 50 + 75 = 325

Unit CRP: 325 (total MET CRP)/5 (total number of METS) = 65%

3. Combat readiness percentage is a valuable tool to assist commanders in readiness reporting by providing objective data to support and inform their subjective assessment.

1009. CHEMICAL BIOLOGICAL RADIOLOGICAL NUCLEAR TRAINING

1. All personnel assigned to the FMF must be trained in chemical, biological, radiological, and nuclear (CBRN) defense in order to survive and continue their mission in this environment. Individual proficiency standards are defined as survival and basic operating standards. Survival standards are those that the individual must master in order to survive CBRN attacks. Basic operating standards are those that the individual, and collectively the unit, must perform to continue operations in a CBRN environment.

2. In order to develop and maintain the ability to operate in a CBRN environment, CBRN training is an integral part of the training plan and events in this T&R Manual. Units should train under CBRN conditions whenever possible. Per reference (c), all units must be capable of accomplishing their assigned mission in a contaminated environment.

1010. NIGHT TRAINING

1. While it is understood that all personnel and units of the FMF are capable of performing their assigned mission in "every clime and place, "current doctrine emphasizes the requirement to perform assigned missions at night and during periods of limited visibility. Basic skills are significantly more difficult when visibility is limited.

2. To ensure units are capable of accomplishing their mission they must train under the conditions of limited visibility. Units should strive to conduct all events in this T&R Manual during both day and night/limited visibility conditions. When there is limited training time available, night training should take precedence over daylight training, contingent on the availability of equipment and personnel.

1011. RISK MANAGEMENT (RM)

1. Risk management is a process that enables commanders to plan for and minimize risk while still accomplishing the mission. It is a tool to aid decision making used by Marines at all levels to increase effectiveness by anticipating hazards and reducing the potential for loss, thereby increasing the probability of success. Risk management minimizes risks to acceptable levels, commensurate with mission accomplishment.

2. All leaders and Marines will integrate RM in the planning process and implement hazard controls to reduce risk to acceptable levels. Applying the RM process will reduce mishaps, injuries, and damage they cause, thereby increasing both individual performance and unit readiness. Risk management assists the commander in avoiding unnecessary risk, determining the balance between training realism and unnecessary risks in training, making an informed decision to implement a course of action, identifying feasible and effective control measures, adjusting training plans to fit the level of

proficiency and experience of Marines/Sailors, and providing reasonable alternatives for mission accomplishment.

3. Specifically, commanders are required to implement and document deliberate RM in the planning and execution of all training evolutions and activities. Furthermore, the authority to approve or accept risk assessment code (RAC) 1 or 2 hazards will not be delegated below lieutenant colonel (O5). Further guidance for RM is found in Marine Corps Order 3500.27_.

1012. IMPROVISED EXPLOSIVE TRAINING

1. Improvised explosive device (IED) threat impacts all elements of the MAGTF and all Marines regardless of MOS, location, or operational environment. The ability to effectively operate and survive in environments with an IED threat is critical to force protection, maintaining combat effectiveness, and mission accomplishment.

2. Per Marine Corps policy on organizing, training, and equipping for operations in an IED environment (MCO 3502.9), Marines must be capable of not only accomplishing their assigned mission, but also accomplishing their mission in environments with an IED threat. Counter-improvised explosive device (C-IED) training must be integrated into the unit training plan in order-to ensure personnel assigned to the FMF train and maintain proficiency in C-IED tactics, techniques, and procedures.

1013. MOS-SPECIFIC PHYSICAL STANDARDS. 1. Within the Infantry Community, Marines are required to demonstrate a high degree of physical strength to standard, in order to perform those regularly assigned, recurrent duties of each of the Infantry's military occupational specialties (MOSs).

2. This T&R Manual contains MOS-specific physical standards, which must be demonstrated, in order to achieve MOS qualification. These MOS-specific physical standards have been identified throughout this T&R manual within the administrative instructions to the event.

3. Assessments for MOS-specific physical standards have been developed and are contained within Appendix E. These assessments provide Commanders reasonable assurance a Marine has the physical capacity to perform the regularly assigned and recurrent duties of the MOS.

4. These MOS-specific physical standards are not the sole requirement for MOS qualification.

SIGINT T&R MANUAL

CHAPTER 2

MISSION-ESSENTIAL TASKS

SIGINT T&R MANUAL

CHAPTER 2

MISSION-ESSENTIAL TASKS

2000. CORE MISSION-ESSENTIAL TASKS (MET). The MET table lists the standardized core METs for units within the SIGINT community.

2001. RADIO BN CORE METS

MCT 1.1.2	Provide Task-Organized Forces
MCT 1.9	Conduct Specialized Insertion and Extraction (SPIE)
MCT 2.1.1.5	Support Targeting
MCT 2.7	Conduct Ground Reconnaissance and Surveillance
MCT 2.8	Conduct Signals Intelligence Operations
MCT 2.9	Establish Automated Intelligence Operations Architecture
MCT 5.1.1.7	Provide Special Intelligence Communications Support
MCT 5.4.1.2	Conduct Electronic Warfare (EW)
MCT 5.9.2	Conduct Offensive Cyberspace Operations (OCO)
MCT 5.14.4	Attack or Exploit Networks, Systems, and Information

2002. RADIO BATTALION MET SUPPORTING E-CODED EVENTS. The Radio Battalion MET supporting E-coded events table lists the E-coded T&R events that support the core METs identified in table 2001. These E-coded T&R events form the basis for unit readiness planning per MCRP 3-0B, identifying subordinate collective and individual training events through the supporting/chained relationships described in each event.

2003. CORE METS MATRIX

MCT 2.1.1.5 Support Targeting	
F35-INTL-4001	Support F-35 Mission Planning
LEWT-SIEW-4001	Conduct LAV/EW Ops
OCAC-EW-6001	Plan electronic warfare operations
OCAC-EW-6002	Conduct EW operations
OCAC-INTL-6001	Plan SIGINT operations
OCAC-INTL-6003	Support targeting
OCE-INTL-5002	Conduct signals intelligence operations
RRT-SIEW-4001	Conduct RRT Ops
SST-SIEW-4001	Conduct SIGINT support team (SST) operations
TEAM-SCTY-3001	Conduct SCIF operations
TEAM-SIEW-3001	Support the fires planning process
MCT 2.7 Conduct Ground Reconnaissance and Surveillance	
OCAC-INTL-6002	Conduct SIGINT operations
OCAC-INTL-6003	Support targeting
OCE-EW-5001	Conduct electronic warfare command and control
OCE-INTL-5002	Conduct signals intelligence operations
OCE-OCO-5001	Conduct RF enabled offensive cyberspace operations command and control

RRT-SIEW-4001	Conduct RRT Ops
TEAM-INTL-3001	Develop Team Collection Plan
TEAM-SCTY-3001	Conduct SCIF operations
MCT 2.8 Conduct Signals Intelligence Operations	
EWRT-EW-4003	Conduct Spectrum Modeling
F35-INTL-4001	Support F-35 Mission Planning
OCAC-INTL-6001	Plan SIGINT operations
OCAC-INTL-6003	Support targeting
OCE-INTL-5001	Conduct SIGINT command and control
OCE-INTL-5002	Conduct signals intelligence operations
RRT-SIEW-4001	Conduct RRT Ops
SST-SIEW-4001	Conduct SIGINT support team (SST) operations
TEAM-INTL-3001	Develop Team Collection Plan
TEAM-SIEW-3001	Support the fires planning process
MCT 2.9 Establish Automated Intelligence Operations Architecture	
OCAC-DATA-6001	Plan intelligence architecture integration
OCAC-DATA-6002	Integrate Intel/EW/Cyber Systems
OCE-DATA-5001	Plan intelligence architecture integration
OCE-DATA-5003	Integrate Intel/EW/Cyber Data
TEAM-SCTY-3001	Conduct SCIF operations
MCT 5.4.1.2 Conduct Electronic Warfare (EW)	
EWST-EW-4001	Conduct EWST Ops
EWST-EW-4002	Conduct EW Remote Operations
F35-INTL-4001	Support F-35 Mission Planning
LEWT-SIEW-4001	Conduct LAV/EW Ops
OCAC-DATA-6001	Plan intelligence architecture integration
OCAC-DATA-6002	Integrate Intel/EW/Cyber Systems
OCAC-EW-6001	Plan electronic warfare operations
OCAC-EW-6002	Conduct EW operations
OCAC-INTL-6002	Conduct SIGINT operations
OCAC-INTL-6003	Support targeting
OCAC-OCO-6002	Conduct RF enabled OCO command and control
OCE-DATA-5001	Plan intelligence architecture integration
OCE-DATA-5003	Integrate Intel/EW/Cyber Data
OCE-EW-5001	Conduct electronic warfare command and control
OCE-EW-5002	Conduct electronic warfare operations
OCE-OCO-5001	Conduct RF enabled offensive cyberspace operations command and control
OCE-OPS-5001	Support Targeting
RRT-SIEW-4001	Conduct RRT Ops
SST-SIEW-4001	Conduct SIGINT support team (SST) operations

2004. RADIO BN CORE PLUS MET

MCT 5.9.2	Conduct Offensive Cyberspace Operations (OCO)

2005. CORE PLUS MET MATRIX

MCT 5.9.2 Conduct Offensive Cyberspace Operations (OCO)	
OCAC-OCO-6001	Plan offensive cyberspace operations
OCAC-OCO-6002	Conduct RF enabled OCO command and control
OCE-OPS-5001	Support Targeting

SIGINT T&R MANUAL

CHAPTER 3

COLLECTIVE EVENTS

SIGINT T&R MANUAL

CHAPTER 3

COLLECTIVE EVENTS

3000. PURPOSE. Chapter 3 contains collective training events for the SIGINT community.

3001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
EWRT	Electronic Warfare Red Team
EWST	Electronic Warfare Support Team
F35	Joint Strike Fighters
LEWT	LAV/EW Team
OCAC	Operational Control and Analysis Center
OCE	Operational Control Element
RECN	Reconnaissance
RRT	Radio Reconnaissance Team
SST	SIGINT Support Team
TEAM	Team

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
AMPH	Amphibious
C2	Command and Control
COMM	Communications
DATA	Data
EW	Electronic Warfare
GRND	Ground Reconnaissance
INTL	Intelligence
OCO	Offensive Cyber Operations
PLAN	Planning
RRT	Radio Reconnaissance
SCTY	Security
SIEW	Signals Intelligence/Electronic Warfare
SPIE	Special Patrol Insertion/Extraction
SURV	Survival

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description

6000 Company Level - Operational Control and Analysis Center
5000 Platoon Level - Operational Control Element or Virtual SIGINT Operations Center
4000 Squad level/Multi-discipline team
3000 Team Level/Single-discipline team

3002. INDEX OF COLLECTIVE EVENTS

Event Code	E-Coded	Event
6000 Level Events		
OCAC-DATA-6001	YES	Plan intelligence architecture integration
OCAC-DATA-6002	YES	Integrate Intel/EW/Cyber Systems
OCAC-EW-6001	YES	Plan electronic warfare operations
OCAC-EW-6002	YES	Conduct EW operations
OCAC-INTL-6001	YES	Plan SIGINT operations
OCAC-INTL-6002	YES	Conduct SIGINT operations
OCAC-INTL-6003	YES	Support targeting
OCAC-OCO-6001	YES	Plan offensive cyberspace operations
OCAC-OCO-6002	YES	Conduct RF enabled OCO command and control
5000 Level Events		
OCE-DATA-5001	NO	Plan intelligence architecture integration
OCE-DATA-5002	YES	Conduct Intelligence Communication Services
OCE-DATA-5003	NO	Integrate Intel/EW/Cyber Data
OCE-EW-5001	NO	Conduct electronic warfare command and control
OCE-EW-5002	NO	Conduct electronic warfare operations
OCE-INTL-5001	YES	Conduct SIGINT command and control
OCE-INTL-5002	YES	Conduct signals intelligence operations
OCE-OCO-5001	YES	Conduct RF enabled offensive cyberspace operations command and control
OCE-OCO-5002	NO	Conduct offensive cyberspace operations
4000 Level Events		
EWRT-EW-4001	NO	Support Signature Management
EWRT-EW-4002	NO	Provide Contested Spectrum Environment
EWRT-EW-4003	NO	Conduct Spectrum Modeling
EWST-EW-4001	NO	Conduct EWST Ops
EWST-EW-4002	NO	Conduct EW Remote Operations
F35-INTL-4001	NO	Support F-35 Mission Planning
LEWT-SIEW-4001	NO	Conduct LAV/EW Ops
RRT-SIEW-4001	NO	Conduct RRT Ops
SST-SIEW-4001	NO	Conduct SIGINT support team (SST) operations
TEAM-OCO-4001	NO	Enable OCO
3000 Level Events		
TEAM-DATA-3001	NO	Integrate Intel/EW/Cyber Data
TEAM-DATA-3002	YES	Conduct intelligence communications services
TEAM-INTL-3001	NO	Develop Team Collection Plan
TEAM-PLAN-3001	YES	Conduct SI/EW team planning
TEAM-SCTY-3001	NO	Conduct SCIF operations
TEAM-SCTY-3002	NO	Execute Emergency Action Plan (EAP)
TEAM-SIEW-3001	NO	Support the fires planning process

3003. INDEX AND LIST OF 3000 LEVEL COLLECTIVE EVENTS

Event Code	E-Coded	Event	Page
3000 Level Events			
TEAM-DATA-3001	NO	Integrate Intel/EW/Cyber Data	3-4
TEAM-DATA-3002	YES	Conduct intelligence communications services	3-4
TEAM-INTL-3001	NO	Develop Team Collection Plan	3-5
TEAM-PLAN-3001	YES	Conduct SI/EW team planning	3-6
TEAM-SCTY-3001	NO	Conduct SCIF operations	3-7
TEAM-SCTY-3002	NO	Execute Emergency Action Plan (EAP)	3-8
TEAM-SIEW-3001	NO	Support the fires planning process	3-9

TEAM-DATA-3001: Integrate Intel/EW/Cyber Data

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

CONDITION: Given authorities, certified personnel, currently-fielded equipment, mission tasking, commander's guidance, intelligence requirements, references, access to available intelligence communications networks, domains, and resources.

STANDARD: Ensure availability of intelligence data throughout the conduct of operations.

EVENT COMPONENTS:
1. Validate requirements.
2. Identify dissemination means.
3. Configure organic system/networks resources.
4. Execute data flow management plan.
5. Execute data intelligence missions.
6. Refine data integration strategy.

REFERENCES:
1. CJCSM 6231.04B Manual for Employing Tactical Communications
2. EKMS-1 (series) EKMS Policy and Procedures for Navy EKMS Tiers 2 & 3
3. JP 2-01 Joint and National Intelligence Support to Military Operations
4. JP 6-0 Joint Communications System
5. MCRP 2-10A.1 Signals Intelligence
6. MCRP 3-30B.2 MAGTF Communications System

TEAM-DATA-3002: Conduct intelligence communications services

SUPPORTED MET(S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

CONDITION: Given authorities, trained personnel, data repository, mission tasking, commander's guidance, intelligence requirements, references, access to intelligence networks, communications plan, and data flow management plan.

STANDARD: Satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits, constraints, mission tasks, and parameters.

EVENT COMPONENTS:
1. Review mission tasking.
2. Conduct site survey.
3. Manage team resources.
4. Coordinate with higher headquarters.
5. Coordinate with adjacent entities.
6. Execute SI communications plan.
7. Execute SI Computer Network Defense Plan.
8. Integrate into spectrum services oriented architecture.
9. Determine emergency destruction plan.

REFERENCES:
1. CJCSM 6231.04B Manual for Employing Tactical Communications
2. EKMS-1 (series) EKMS Policy and Procedures for Navy EKMS Tiers 2 & 3
3. JP 2-02 National Intelligence Support to Joint Operations
4. JP 6-0 Joint Communications System
5. MCRP 2-10A.1 Signals Intelligence
6. MCRP 3-30B.2 MAGTF Communications System
7. MCWP 6-22 Communications and Information Systems

TEAM-INTL-3001: Develop Team Collection Plan

SUPPORTED MET(S):
MCT 2.7 MCT 2.8

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: Provides procedures to efficiently employ given collections equipment IOT satisfy information/operational requirements.

CONDITION: Given personnel, authorities, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To employ resources IOT satisfy information requirements.

EVENT COMPONENTS:
1. Review mission tasking.
2. Identify resources.
3. Identify resource gaps.
4. Report resource gaps.
5. Analyze SIGINT technical information.

6. Survey electromagnetic spectrum.

REFERENCES: FM 34-2 Collection Management and Synchronization Planning

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TEAM-PLAN-3001: Conduct SI/EW team planning

SUPPORTED MET(S): MCT 5.14.4

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: This process, in an operational and non-operational environment, develops an order/plan to direct actions and focuses subordinate activities towards accomplishing the mission. The purpose of this plan is to communicate the Commander's intent, guidance, and tasks in a clear, useful form that is easily understood by those who must execute the mission with the default being deliberate planning by using the Marine Corps Planning Process (MCPP). Depending upon time, type of unit, environment, and situation, the unit may decide to utilize other planning methods (Joint Operational Planning Process (JOPP) or Rapid Response Planning Process (R2P2)) or modify the planning process. For the purposes of measuring capability, the standard of MCPP will be utilized for measuring readiness of core tasks. The SI/EW team's planning efforts will include coordination with the supported unit. The team is expected to receive guidance and commander's intent and provide input to the supported unit regarding best practices for employment of the team in accordance with its capabilities and organic resources. This event is separate and distinct from the SIGINT contribution to the MAGTF commander's staff planning. This event describes the actions taken by the team upon receipt of initial tasking and is the process of building the detailed plan for executing the team's portion of the overall mission.

CONDITION: Given personnel, currently-fielded equipment, mission tasking, commander's guidance, intelligence requirements, EW requirements, references, access to communications networks, and materials.

STANDARD: To create a plan which ensures effective employment of the SI/EW team ISO mission requirements, within a timeline established by the Commander.

EVENT COMPONENTS:

1. Review mission tasking.
2. Set timeline.
3. Coordinate with supported unit for initial planning considerations.
4. Contribute to scheme of maneuver development with supported unit.
5. Submit requests for intelligence support products.
6. Issue warning order.
7. Conduct analysis of physical operating environment.
8. Conduct analysis of RF operating environment.
9. Identify logistics requirements.
10. Coordinate logistics support.
11. Identify communications requirements
12. Integrate into communications plan

13. Identify collection requirements.
14. Build team collection plan ISO higher echelon collection plan.
15. Develop EDL.
16. Issue the order.
17. Prepare for combat.

REFERENCES:
1. JP 3-13.1 Electronic Warfare
2. MCRP 2-10A.1 Signals Intelligence
3. MCRP 3-32D.1 Electronic Warfare
4. MCWP 5-10 Marine Corps Planning Process

SUPPORT REQUIREMENTS:

MATERIAL:
Materials for planning to include but not limited to: (Portable or Desktop Computers, External Hard Drives, Unclassified and Classified Internet Access, Dry Erase Board, Flip Charts, Dry Erase Markers, Pens/Pencils, Printer, Printer Paper, Printer Ink, Maps of Operational Area, Proxima Projector, Projector Screen or Flat Panel Television with required cable for use with Portable Laptop, Extension Cords, Power Strips). Appropriate C4 Suite.

TEAM-SCTY-3001: Conduct SCIF operations

SUPPORTED MET(S):
MCT 2.1.1.5 MCT 2.7 MCT 2.9
MCT 5.14.4

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Establish physical security measures, implement policies and manage operations to ensure a certified secure work environment for SCI operations. Types of SCIFs include, but are not limited to temporary, mobile, and/or permanent. SCIF operations provide proper protection, use, and dissemination of SCI documents and material by enforcing SCI, information, personnel, physical, communications, and IA security rules through the creation and implementation of standard operating procedures (SOPs) in accordance with the references. SCIF operations also include the management of subordinate elements operating in SCIFs. T-SCIFs should ensure that there is only one point of entry and that the most restrictive physical security measures appropriate for the assigned area of operation are in place. T-SCIF physical security features must provide acoustical, visual, and surreptitious entry protection. T-SCIFs require 24 hour operation and an alert armed guard during combat operations. Under field or combat conditions open storage of SCI media and materials requires a continuous presence by SCI-indoctrinated personnel. The quantity of SCI material within a T-SCIF shall be limited, to the extent possible, to an amount consistent with operational needs. All SCI shall be stored in GSA-approved security containers. The Action Officer (AO) or Special Security Representative (SSR) may approve exceptions to the storage of SCI material in GSA-approved storage containers for a specified period of time.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To support SCI operations within the timelines and constraints established by directives.

EVENT COMPONENTS:
1. Review mission requirements.
2. Conduct site survey.
3. Execute SCIF request procedures.
4. Execute SCIF physical security requirements.
5. Execute SCIF personnel security requirements.
6. Execute SCIF technical security requirements.
7. Activate.
8. Deactivate.

REFERENCES:
1. ICD 705 Sensitive Compartmented Information Facilities
2. NSTISSAM TEMPEST/2-95 Red/Black Installation Guidelines, 12 Dec 1995, w/Amendment - Feb 2000
3. USSID 1 SIGINT Operating Policy

TEAM-SCTY-3002: Execute Emergency Action Plan (EAP)

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Each T-SCIF is required to maintain an SSO approved Emergency Action Plan (EAP). The EAP should account for the removal and/or safeguarding of SCI material from situations that could result in compromise. An SSO/SSR approved Emergency Destruction Plan should be nested in the EAP. SCI material must be prioritized to ensure that the most sensitive information is safeguarded or destroyed regardless of time/situation constraints. The EAP should take into consideration fire, inclement weather, the entrance of uncleared personnel into the SCIF, and combat conditions and situations. All personnel must be familiar with the plans. Ensure a SSO or other Accrediting Official-approved Emergency Action Plan (EAP) is developed and rehearsed periodically by all personnel assigned to the T-SCIF; the results of the rehearsal drills shall be documented

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To prevent the compromise of classified information and equipment.

EVENT COMPONENTS:
1. Determine threshold for initiation of EAP has been met.
2. Initiate EAP.
3. Conduct EDP.
4. Verify EAP is complete.
5. Complete post-EAP actions.

REFERENCES:
1. ICD 705 Sensitive Compartmented Information Facilities
2. MCRP 2-10A.1 Signals Intelligence
3. USSID 1 SIGINT Operating Policy

TEAM-SIEW-3001: Support the fires planning process

SUPPORTED MET(S):
MCT 2.1.1.5 MCT 2.8

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

CONDITION: Given a higher order or directive, commander's guidance, references and appropriate EW systems.

STANDARD: Support the development of the operations order, branches, sequels, and FRAGOs to support the accomplishment of the mission and the commander's end state.

EVENT COMPONENTS:
1. Analyze HHQ order.
2. Participate in the IPB process to identify HVT.
3. Identify assumptions, limitations, specified tasks, short-falls, critical requirements, ROE, and how to exploit the enemy's COG.
4. Develop fires staff estimates for each COA.

5. Validate FSCM, NAI/TAI, main effort and HPTs.
6. Identify additional requirements: LND, TAIs, Collection Reqs.
7. Support development of fires portion of the synchronization matrix.
8. Determine advantages and disadvantages for each COA.
9. Produce EW estimate of supportability.
10. Participate in comparison and decision discussions.
11. Support production of fires portion of warning order.
12. Develop and conduct EW rehearsal drill.
13. Support updates to orders and fires products; provide updated information.

REFERENCES:

1. DODD 5105.21-M-1 Sensitive Compartmented Information (SCI) Security Manual, Administrative Security
2. ICD 705 Sensitive Compartmented Information Facilities
3. ICD 705 Technical Specifications Version 1.4
4. ICD 705.1 Physical Security Standards for Sensitive Compartmented Information Facilities
5. ICD 705.2 Protecting Sensitive Compartmented Information with Information Systems
6. JOPES VOL II CJCSI 3110.01 Series
7. MCDP 5 Planning
8. MCWP 3-31 Marine Air-Ground Task Force Fires
9. MCWP 5-10 Marine Corps Planning Process
10. MSTP 5-0.2 Operational Planning Team Leaders Guide
11. MSTP PAM 3-0.3 MAGTF Fires Reference Guide
12. SECNAV M-5510.30 Department of the Navy Personnel Security Program

3004. INDEX AND LIST OF 4000 LEVEL COLLECTIVE EVENTS

EWRT-EW-4001: Support Signature Management

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: This task outlines the procedures for conducting electronic warfare support to signature management. The EWRTs assigned to Marine Corps Information Operations Command (MCIOC) will be employed as part of MCIOC's Signature Management teams and will be the primary team for conducting EW support to signature management.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: Advise unit commanders of methods to reduce EMS signature.

EVENT COMPONENTS:

1. Request table of equipment of supported unit.
2. Request supported unit CEOI.
3. Request equipment density list of supported unit.
4. Identify electromagnetic emissions of supported unit.
5. Determine probability of detection and probability of intercept ranges from point of emanation.
6. Record electromagnetic emissions of established unit footprint.
7. Coordinate with external agencies to request additional emission study.
8. Provide report of supported units EMS signature.
9. Provide recommendations to reduce signatures.

REFERENCES: MCRP 2-10A.1 Signals Intelligence

EWRT-EW-4002: Provide Contested Spectrum Environment

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: This task outlines the procedures the EWRT will take in conducting electronic attack operations as part of an aggressor force in order to allow targeted units to conduct training and exercises in a communications denied and/or degraded environment. The EWRTs assigned to Tactics and Training Exercise Control Group and the Expeditionary Operations Training group will be the primary team for providing contested spectrum environments to the exercise forces.

CONDITION: Given personnel, equipment, subordinate elements, mission tasking, commander's guidance, references, access to available communications networks, and materials.

STANDARD: Advise unit commanders of methods to conduct operations in a contested spectrum environment.

EVENT COMPONENTS:
1. Identify friendly force capabilities, training goals.
2. Identify capabilities to achieve training goals.
3. Design scenario emulating target actor.
4. Coordinate with external units for additional capabilities.
5. Identify requirements to use required capabilities.
6. Conduct deliberate electronic attack against training audience.
7. Provide assessment to training audience/recommendations.

REFERENCES: MCRP 2-10A.1 Signals Intelligence

EWRT-EW-4003: Conduct Spectrum Modeling

SUPPORTED MET(S): MCT 2.8

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: Spectrum modeling involves establishing the baseline behavior of the EMS in order to predict possible effects on communication systems caused by natural and man-made signals.

CONDITION: Given personnel, equipment, mission tasking, commander's guidance, references, access to available communications networks, and materials.

STANDARD: Provide probable electromagnetic emission ranges in a given operations area to support communications, electronic warfare, and SIGINT planning.

EVENT COMPONENTS:
1. Conduct spectrum survey of environment.
2. Analyze emitters, terrain, and weather.
3. Construct EMS model of environment.
4. Test communication equipment against model.
5. Provide assessment and recommendations to commander.

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. MCRP 3-32D.1 Electronic Warfare

EWST-EW-4001: Conduct EWST Ops

SUPPORTED MET(S): MCT 5.4.1.2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: This task provides the construct for how an EWST conducts electronic warfare support and electronic attack.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To identify, locate, and effect enemy communications emitters within a timeline established by the commander.

EVENT COMPONENTS:
1. Establish communications.
2. Configure electronic warfare systems.
3. Conduct spectrum survey.
4. Locate targets in spectrum.
5. Locate targets geographically.
6. Nominate targets.
7. Support signature management with electronic warfare support.
8. Produce CIB/IBS data.
9. Conduct dataflow management.
10. Provide Indications and Warnings.
11. Conduct deliberate electronic attack fire mission.
12. Conduct dynamic electronic attack fire mission.
13. Provide battle damage assessment.

REFERENCES:
1. EO 12333 U.S. Intelligence Activities (As Amended)
2. MCRP 2-10A.1 Signals Intelligence
3. USSID CR1500 (SMGT-2002, 2005, 2006)
4. USSID CR1501 (SMGT-2002)

5. USSID SP0101

CHAINED EVENTS:

EXTERNAL SUPPORTED EVENTS:

ANGL-FSCC-5015	CE-FIRE-9001	FSCC-BFST-4015

EWST-EW-4002: Conduct EW Remote Operations

SUPPORTED MET(S): MCT 5.4.1.2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: This task provides the framework for the EWST and other ground-based EW assets to remotely control and utilize MAGTF EW sensors across the battlespace. As EW systems become more ubiquitous across the MAGTF, the EWST will be required to control equipment not in their physical possession. These MAGTF EW systems include, but are not limited to the Intrepid Tiger II, Multifunction EW (MF-EW), and the Spectral Sieve family of systems. The Electromagnetic Spectrum Operations Center (EMSOC) must coordinate across the MAGTF in order to ensure the appropriate EW sensors are deployed in support of the operations and fire support plan. Additionally, the EMSOC will coordinate with the EW asset owners to establish remote control relationships with the EWST and the payload. Once the command relationships are established, the EWST will establish communications with the EW asset and utilize that asset to conduct Electronic Support (ES) and Electronic Attack (EA) in support of the operation and fire support plan. There will be times where the EWST will not control the EW asset during operation, but will be required to configure the payload prior to deployment and recover data upon redeployment.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To remotely identify, locate, and effect enemy communications emitters within a timeline established by the commander.

EVENT COMPONENTS:

1. Coordinate with the EMSOC.
2. Establish appropriate communications link with MAGTF EW system.
3. Configure MAGTF EW systems.
4. Remotely control MAGTF EW systems.
5. Conduct electronic warfare support.
6. Conduct deliberate electronic attack.
7. Conduct dynamic electronic attack.
8. Conduct dataflow management.
9. Support battle damage assessment.

REFERENCES:

1. ICD 705.1 Physical Security Standards for Sensitive Compartmented

Information Facilities

2. MCRP 2-10A.1 Signals Intelligence
3. MCRP 3-32D.1 Electronic Warfare
4. MCTP 2-10B MAGTF Intelligence Production and Analysis

CHAINED EVENTS:

EXTERNAL SUPPORTED EVENTS:

CE-FIRE-9001	FSCC-BFST-4005	FSCC-BFST-4020
MEU-FSPT-8301	MEU-FSPT-8303	MEU-FSPT-8304

F35-INTL-4001: Support F-35 Mission Planning

SUPPORTED MET(S):

MCT 2.1.1.5	MCT 2.8	MCT 5.4.1.2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: This task provides procedures to support F35 mission planning. This task is applicable to other aviation type, models, and series platforms and squadrons.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commanders planning, decision, execution, and assessment within established time limits and constraints, mission tasks, and area.

EVENT COMPONENTS:

1. Access relevant database.
2. Receive IBS/NRTD feed.
3. Establish command relationship.
4. Coordinate with EW reprogramming lab
5. Determine threat emitters in AOR/mission area.
6. Provide identification ambiguity possibilities.
7. Conduct post-mission actions.

REFERENCES: MCRP 2-10A.1 Signals Intelligence

LEWT-SIEW-4001: Conduct LAV/EW Ops

SUPPORTED MET(S):

MCT 2.1.1.5	MCT 5.4.1.2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The Light Armored Vehicle-Electronic Warfare (LAV-EW) variant of the Light Armored Vehicle (LAV) family allows a unit to gain and maintain supremacy with-in the electro-magnetic spectrum (EMS). Typically the LAV-EW will be attached to Light Armored Reconnaissance (LAR) platoon as part of a Marine Expeditionary Unit (MEU). During the conduct of operations ashore with LAR, the LAV-EW will be asked to perform a range of missions in support of operations. Signal surveys will provide situational awareness (SA) to the LAR platoon, as well as, other units with which communications have been established. The signal survey also serves the electronic warfare support (ES) role and helps to set conditions for a portion of the electronic protection (EP) mission within the overall electronic warfare (EW) construct. Indications and warnings (I&W) can be relayed to supported units, which may allow dynamic electronic attack (EA) or set conditions for a supported commander to plan more deliberate EA. When conducting the electronic attack sub-section of EW operations, adjacent unit fratricide is the greatest risk that commanders assume. Best practices to mitigate that risk is to use the Fires Effect Coordination Cell (FECC), spectrum managers, the Joint Restricted Frequency List (JRFL), the Electronic Attack (EA) Clearance Guide, and the Joint Automated Communications-Electronics Operating Instructions (J-ACEOI). A major part of EA operations is gaining a measure of effectiveness/measure of performance (MEO/MOP). This is difficult at best, but when able, can provide a significant force multiplier to the ground forces conducting the operation. MOE/MOP allow the supported commander to conduct re-attack operations or switch to a portion of spectrum that may be easier exploited.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To report on signals of interest per information requirements, within a time limit established by the commander.

EVENT COMPONENTS:

1. Conduct planning.
2. Establish security.
3. Establish communications.
4. Conduct survey.
5. Conduct SIGINT operations.
6. Conduct electronic warfare support.
7. Conduct deliberate EA.
8. Conduct dynamic EA.
9. Conduct computer network exploitation.
10. Conduct dataflow management.
11. Provide I&W.
12. Conduct debrief.
13. Conduct SIGINT reporting.

REFERENCES: MCRP 2-10A.1 Signals Intelligence

CHAINED EVENTS:

PREREQUISITE EVENTS:
TEAM-SCTY-3002 TEAM-SIEW-3001

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Description continued: This task outlines the conduct of LAV-EW operations ISO MAGTF operations. The teams must execute tactical operations to gather the intelligence the commander requires. Security is essential all operations as it safeguards materials and protects personnel. Communication with the OCE, supported and adjacent units provides the team with a means to push and pull information. SIGINT collections in RF spectrum, signals identification, basic analysis, resource manage, and accurately identifying and reporting reportable information contribute to the intelligence picture and directly impact the commander's understanding of the battlefield.

RRT-SIEW-4001: Conduct RRT Ops

SUPPORTED MET(S):

MCT 2.1.1.5	MCT 2.7	MCT 2.8
MCT 5.14.4	MCT 5.4.1.2	

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: There are many activities that occur at the Joint Forces Command (JFC) level to integrate and synchronize a forcible entry operation. The list is not all-inclusive but presents activities for JFC¿s and staffs to consider when synchronizing a forcible entry operation. One of these is advance force operations (AFO). The majority of insertion and extraction needed during advance force operations is considered specialized insert/extract. Specialized insertion and extraction is defined as the maneuver of reconnaissance forces via specialized, usually clandestine, surface, subsurface, and/or aerial means to gain access to the operational environment.

Radio reconnaissance platoons are trained in special insert and extract means and basic reconnaissance capabilities. The additional training makes the radio reconnaissance team capable of advance force, pre-assault, deep post-assault, and Maritime Raid Force SIGINT/EW missions as assigned radio reconnaissance teams support the six intelligence functions. Additionally, they may be tasked to conduct SIGINT/EW signals search and data base development in order to enhance understanding of threat operations prior to the arrival of other SIGINT/EW support unit forces."

During amphibious AFO, radio reconnaissance teams would provide SIGINT/EW support to the advanced force. This support would include but not be limited to indications & warnings, threat reporting, enemy network characterization, signals survey, limited cyber enabling and electronic attack, and a communications reach back to the Intelligence Community.

CONDITION: Given personnel, required equipment, mission tasking on an advanced force operation, commander's intent, and intelligence requirements. Capability could be limited based on what type of insert/extract method is used or how many radio reconnaissance marines are supporting the operation. This is due to the amount of equipment needed for certain tasking as well as manpower for operations exceeding 96 hours.

STANDARD: To report on signals of interest per information requirements, within a time limit established by the commander.

EVENT COMPONENTS:
1. Conduct planning.
2. Conduct insertion.
3. Establish security.
4. Establish communications.
5. Conduct survey.
6. Conduct SIGINT collection operations.
7. Conduct electronic warfare support.
8. Conduct computer network exploitation.
9. Conduct dataflow management.
10. Provide indications and warnings.
11. Conduct extraction.
12. Conduct debrief.
13. Conduct SIGINT reporting.

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. MCRP 2-10A.6 Ground Reconnaissance Operations

CHAINED EVENTS:

PREREQUISITE EVENTS:
TEAM-SCTY-3001 TEAM-SCTY-3002

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Minimum 1 x HRST Master, 1 x Jump Master, 1 x Coxswain, 2 x PGL Certified Marines, 1 x Certified CNE Operator.

SST-SIEW-4001: Conduct SIGINT support team (SST) operations

SUPPORTED MET(S):
MCT 2.1.1.5 MCT 2.8 MCT 5.14.4
MCT 5.4.1.2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: This task outlines the conduct of SIGINT Support Team operations ISO MAGTF operations. The teams must execute tactical operations to gather the intelligence the commander requires. Security is essential to all operations, as it safeguards materials and protects personnel. Communication with the OCE, supported and adjacent units provides the team with a means to push and pull information. Collections in RF spectrum, signals identification, basic analysis, resource manage, and accurately identifying and reporting reportable information contribute to the intelligence picture and directly impact the commander's understanding of the battlefield. Signal surveys will provide situational awareness the supported commander. The signal survey also serves the electronic warfare support (ES) role and helps to set conditions for a portion of the electronic protection (EP) mission within the overall electronic warfare (EW) construct. Indications and warnings (I&W) can be relayed to supported units, which may allow dynamic electronic attack (EA) or set conditions for a supported commander to plan more deliberate EA.

When conducting the electronic attack sub-section of EW operations, adjacent unit fratricide is the greatest risk that commanders assume. Best practices to mitigate that risk is to use the Fires Effect Coordination Cell (FECC), spectrum managers, the Joint Restricted Frequency List (JRFL), the Electronic Attack (EA) Clearance Guide, and the Joint Automated Communications-Electronics Operating Instructions (J-ACEOI). A major part of EA operations is gaining a measure of effectiveness/measure of performance (MEO/MOP).

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the supported commander's planning, decision, execution, and assessment (PDE&A) within established time limits, constraints, mission tasks, and parameters.

EVENT COMPONENTS:

1. Conduct planning.
2. Establish security.
3. Establish communications.
4. Conduct RF spectrum survey.
5. Conduct SIGINT Operations.
6. Conduct electronic warfare support.
7. Conduct deliberate EA.
8. Conduct dynamic EA.
9. Conduct computer network exploitation.
10. Conduct dataflow management.
11. Provide I&W.
12. Conduct debrief.
13. Conduct SIGINT reporting.

REFERENCES: MCRP 2-10A.1 Signals Intelligence

CHAINED EVENTS:

PREREQUISITE EVENTS:

TEAM-SCTY-3001 TEAM-SCTY-3002

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
Description continued: This is difficult at best, but when able, can provide a significant force multiplier to the ground forces conducting the operation. MOE/MOP allow the supported commander to conduct re-attack operations or switch to a portion of spectrum that may be easier exploited. Reporting to higher headquarters (HHQ) and adjacent supported units, through established communications, is consistent with prescribed data flow management practices and must be incorporated in any SST standard operating procedures (SOP).

TEAM-OCO-4001: Enable OCO

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: This task provides procedures for enabling OCO.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To enable OCO through SIGINT operations within a time limit established by the commander.

EVENT COMPONENTS:
1. Establish security.
2. Establish communications.
3. Conduct DNI survey.
4. Conduct DNI collection.
5. Conduct CNE ISO OCO
6. Enable access ISO OCO.
7. Conduct post-mission actions

REFERENCES: MCRP 2-10A.1 Signals Intelligence

3005. INDEX AND LIST OF 5000 LEVEL COLLECTIVE EVENTS

OCE-DATA-5001: Plan intelligence architecture integration

SUPPORTED MET(S):
MCT 2.9 MCT 5.4.1.2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

CONDITION: Given authorities, certified personnel, currently-fielded equipment, mission tasking, commander's guidance, intelligence requirements, references, access to available intelligence communications networks, domains, and resources.

STANDARD: Ensure the commander/staff has an automated intelligence operations architecture to satisfy intelligence requirements.

EVENT COMPONENTS:
1. Review mission tasking.
2. Conduct site survey.
3. Identify organic/non-organic resources.
4. Coordinate with internal/external entities.
5. Plan against environmental requirements/considerations.
6. Determine system requirements.
7. Determine communications requirements.
8. Allocate resources.
9. Execute communications plan.
10. Execute Continuity of Operations (COOP) Plan.

REFERENCES:
1. CJCSM 6231.04B Manual for Employing Tactical Communications
2. EKMS-1 (series) EKMS Policy and Procedures for Navy EKMS Tiers 2 & 3
3. JP 2-02 National Intelligence Support to Joint Operations
4. JP 6-0 Joint Communications System

5. MCRP 2-10A.1 Signals Intelligence

OCE-DATA-5002: Conduct Intelligence Communication Services

SUPPORTED MET(S): MCT 5.1.1.7

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

CONDITION: Given authorities, certified personnel, currently-fielded equipment, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: In order to ensure the commander/staff have SCI communications to satisfy operational requirements.

EVENT COMPONENTS:
1. Review mission tasking.
2. Conduct site survey.
3. Coordinate with internal/external entities.
4. Allocate resources.
5. Execute communications plan.
6. Execute SCI Computer Network Defense Plan.

REFERENCES:
1. CJCSM 6231.04B Manual for Employing Tactical Communications
2. DODI 8570.01-M Information Assurance Workforce Improvement Program
3. DODIIS DJSIG DOD Intelligence Information System (DODIIS) Joint Security Implementation Guide (DJSIG) June 2011
4. EKMS-1 (series) EKMS Policy and Procedures for Navy EKMS Tiers 2 & 3
5. JP 2-02 National Intelligence Support to Joint Operations
6. JP 6-0 Joint Communications System
7. MCRP 2-10A.1 Signals Intelligence
8. MCRP 3-30B.2 MAGTF Communications System
9. MCWP 6-22 Communications and Information Systems
10. SECNAVINST 5239.3B DEPARTMENT OF THE NAVY INFORMATION ASSURANCE POLICY 17 June 2009

CHAINED EVENTS:

PREREQUISITE EVENTS:
TEAM-SCTY-3001 TEAM-SCTY-3002

OCE-DATA-5003: Integrate Intel/EW/Cyber Data

SUPPORTED MET(S):
MCT 2.9 MCT 5.4.1.2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: This task outlines the procedures the OCE will take to integrate data from multiple disciplines and sources in order to facilitate SIGINT/EW operations and analysis. While the sources of data continue to grow, the OCE is required to access, format, and aggregate data organically.

CONDITION: Given authorities, certified personnel, currently-fielded equipment, mission tasking, commander's guidance, intelligence requirements, references, access to available intelligence communications networks, domains, and resources.

STANDARD: To ensure availability of intelligence data throughout the conduct of operations.

EVENT COMPONENTS:
1. Validate requirements.
2. Identify integration constraints.
3. Identify data inputs.
4. Establish accessibility controls.
5. Identify data outputs.
6. Maintain data repository.
7. Coordinate integration activities.
8. Disseminate data intelligence reports.
9. Refine data integration strategy.

REFERENCES:
1. CJCSM 6231.04B Manual for Employing Tactical Communications
2. EKMS-1 (series) EKMS Policy and Procedures for Navy EKMS Tiers 2 & 3
3. JP 2-02 National Intelligence Support to Joint Operations
4. JP 6-0 Joint Communications System
5. MCRP 2-10A.1 Signals Intelligence
6. MCRP 3-30B.2 MAGTF Communications System
7. MCWP 6-22 Communications and Information Systems

OCE-EW-5001: Conduct electronic warfare command and control

SUPPORTED MET(S):
MCT 2.7 MCT 5.1.1.7 MCT 5.4.1.2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: This task outlines the OCE's role in command and control of SST, RRT, and LAV-EW while coordinating tasking with the MAGTF operations and fires sections. The SST, RRT, LAV-EW are dual-use assets, which mean they conduct both SIGINT and EW operations. This requires the OCE to manage and task subordinate EW assets, coordinate effects-based EA, and direct measures of performance and effectiveness.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits and constraints authorities, mission tasks, and parameters.

EVENT COMPONENTS:

1. Identify desired effect.
2. Identify EA ROE.
3. Establish communications.
4. Execute knowledge management plan.
5. Execute information management plan.
6. Process RFI's.
7. Submit targets.
8. Task subordinate EW assets.
9. Direct measures of performance and measures of effectiveness support from organic SIGINT/EW assets.
10. Process MOP/MOE/BDA.
11. Recommend Re-attack/Re-strike decision.

REFERENCES:

1. EO 12333 U.S. Intelligence Activities (As Amended)
2. ICD 705.1 Physical Security Standards for Sensitive Compartmented Information Facilities
3. MCRP 2-10A.1 Signals Intelligence
4. MCRP 3-32D.1 Electronic Warfare
5. MCTP 2-10B MAGTF Intelligence Production and Analysis

CHAINED EVENTS:

EXTERNAL SUPPORTED EVENTS:

CE-FIRE-9001	FSCC-BFST-4005	FSCC-BFST-4020
MEU-FSPT-8301	MEU-FSPT-8303	MEU-FSPT-8304

OCE-EW-5002: Conduct electronic warfare operations

SUPPORTED MET(S): MCT 5.4.1.2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: Units must be able to conduct electronic warfare (EW) operations in support of the ground force MAGTF commander's (GFC) scheme of maneuver (SOM) to maintain and preserve their supremacy of the electro-magnetic spectrum in the information environment. In order to do this, units must plan and de-conflict frequency exploitation and degradation to gain the most out of EW operations. When conducting the electronic attack sub-section of EW operations, adjacent unit fratricide is the greatest risk that commanders assume. Best practices to mitigate that risk is to use the Fires Effect Coordination Cell (FECC), spectrum managers, the Joint Restricted Frequency List (JRFL), the Electronic Attack (EA) Clearance Guide, and the Joint Automated Communications-Electronics Operating Instructions (J-ACEOI). A major part of EW operations is gaining a measure of effectiveness/measure of performance (MEO/MOP). This is difficult at best, but when able, can provide a significant force multiplier to the ground forces conducting the operation. MOE/MOP allow the GFC commander to conduct re-attack operations or switch to a portion of spectrum that may be easier exploited.

This task outlines the OCE's action in executing electronic warfare operations. The SST, RRT, LAV-EW are dual-use assets, which mean they conduct both SIGINT and EW operations. The OCE must be able to support them with higher EW operations support and advise the commander on effective use of dual-use assets. Units must be able to conduct electronic warfare (EW) operations in support of the ground force MAGTF commander's (GFC) scheme of maneuver (SOM) to maintain and preserve their supremacy of the magnetic spectrum in the information environment.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commanders planning, decision, execution, and assessment within established time limits, constraints mission tasks, and parameters.

EVENT COMPONENTS:

1. Identify tasking.
2. Review tasking.
3. Conduct electronic warfare support.
4. Conduct electronic attack
5. Conduct electronic protect.
6. Assess measures of effectiveness.
7. Update electronic warfare libraries.
8. Produce integrated broadcast system data.
9. Report measures of effectiveness and measures of performance.

REFERENCES: MCRP 3-32D.1 Electronic Warfare

CHAINED EVENTS:

PREREQUISITE EVENTS: TEAM-SIEW-3001

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Description continued: In order to do this, units must plan and de-conflict frequency exploitation and degradation to gain the most out of EW operations. When conducting the electronic attack sub-section of EW operations, adjacent unit fratricide is the greatest risk that commanders assume. Best practices to mitigate that risk is to use the Fires Effect Coordination Cell (FECC), spectrum managers, the Joint Restricted Frequency List (JRFL), the Electronic Attack (EA) Clearance Guide, and the Joint Automated Communications-Electronics Operating Instructions (J-ACEOI). A major part of EW operations is gaining a measure of effectiveness/measure of performance (MEO/MOP). This is difficult at best, but when able, can provide a significant force multiplier to the ground forces conducting the operation. MOE/MOP allow the GFC commander to conduct re-attack operations or switch to a portion of spectrum that may be easier exploited.

OCE-INTL-5001: Conduct SIGINT command and control

SUPPORTED MET(S):
MCT 2.8 MCT 5.1.1.7

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: OCE provides C4I of SIGINT/EW teams to support MAGTF Commander requirements at all echelons. This support may be to the CE, GCE, ACE, or LCE.

SIGINT C2 consists of traditional military C2 and SIGINT procedural or technical C2, known as SIGINT Operational Tasking Authority, which is expressly delegated in writing to MAGTF commanders with assigned SIGINT units. Successful SIGINT C2 requires continual awareness of the enemy and friendly situation, status of the operation, Priority Intelligence Requirements, and organic and external SIGINT capabilities, as well as exercising command authority, implementing SIGINT policies and directives, and employing C2 support structures to ensure all components of the C2 system are working in concert towards a common end-state.

More often than not, the Operations Control Element (OCE) is the senior Marine Corps SIGINT element for the MAGTF. To that end, the OCE recommends the allocation of SIGINT resources and executes Signals Intelligence Operational Tasking Authority (SOTA) on behalf of the MAGTF commander as part of collection operations management, and assists in determining command relationships through interaction with the MAGTF S-2, S-3, and supported commands. As part of a larger deployed MAGTF (e.g., MEB or MEF), the Command Element G-2 and Radio Battalion command element establish the SIGINT procedural and technical C2 relationships between all SIGINT formations; however, each OCE still has a responsibility to answer its supported commander's PIRs and recommend support relationships of its assigned SIGINT assets.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits and constraints authorities, mission tasks, and parameters.

EVENT COMPONENTS:
1. Review mission tasking.
2. Determine SIGINT authorities.
3. Request additional authorities required to support mission tasking.
4. Determine task organization.
5. Recommend military command authority relationships (H/A/S).
6. Determine SIGINT operational C2 relationships (H/A/S).
7. Develop IM/KM plan.
8. Employ C2 support structures.
9. Implement IM/KM plan.
10. Conduct collection operations management.
11. Produce orders for subordinate units.
12. Apply SIGINT policies, directives, and processes.
13. Coordinate with external units and organizations.

REFERENCES:
1. JP 3-0 Joint Operations
2. MCDP 6 Command and Control
3. MCRP 2-10A.1 Signals Intelligence
4. MCTP 2-10A MAGTF Intelligence Collection
5. USSIDS United States Signals Intelligence Directives

CHAINED EVENTS:

EXTERNAL SUPPORTED EVENTS:

CE-FIRE-9001	FSCC-BFST-4005	FSCC-BFST-4010
MEU-FSPT-8301	MEU-FSPT-8303	MEU-FSPT-8304

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: (link to OCE-DATA-5001 through 5003).

OCE-INTL-5002: Conduct signals intelligence operations

SUPPORTED MET(S):

MCT 2.1.1.5	MCT 2.7	MCT 2.8

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

DESCRIPTION: OCE provides SIGINT support to MAGTF Commanders at all echelons. This may occur at CE, GCE, ACE, or LCE. SIGINT operations produces intelligence on the enemy's capabilities, intent, and operations by exploiting the enemy's use of communication, radars, and electronic systems. Radio Battalion elements conduct SIGINT operations in order to provide timely and usable SIGINT information which answers the MAGTF commander's PIRs and other MAGTF IRs. Information derived from SIGINT operations supports the intelligence cycle, as well as the commander and the unit's overall mission while providing the commander and staff with situational awareness. Radio Battalion elements collect, process, analyze, and exploit SIGINT, and produce, and disseminate SIGINT reports and products. Raw collected information is processed through traffic, linguistic, signal and ELINT analysis as well as cryptanalysis to yield SIGINT products and technical reports, which enable multiple warfighting functions such as force protection by providing indications and warnings (I&W) and/or targeting through direction finding (DF) or precision geo-location (PGL) of the adversary.

CONDITION: Given certified personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the supported commander's planning, decision, execution, and assessment (PDE&A) within established time limits, constraints, mission tasks, and parameters.

EVENT COMPONENTS:

1. Establish SCIF.
2. Establish communications.
3. Conduct collection requirements management.
4. Conduct collection operations management.
5. Conduct cryptologic intelligence oversight.
6. Execute IMO plan.
7. Execute KMO plan.
8. Contribute SIGINT support to the intelligence cycle.
9. Execute battle rhythm.
10. Determine analytic priorities.
11. Conduct SIGINT analysis.
12. Liaise with external agencies/commands.
13. Conduct SIGINT asset command and control (Resource management).
14. Provide support to battle damage assessment.
15. Provide support to targeting.
16. Conduct SIGINT reporting.
17. Provide I&W.
18. Provide crypto-linguist capability.
19. Coordinate with COC.
20. Disseminate SIGINT reporting.

REFERENCES:

1. EO 12333 U.S. Intelligence Activities (As Amended)
2. ICD 705.1 Physical Security Standards for Sensitive Compartmented Information Facilities
3. MCRP 2-10A.1 Signals Intelligence
4. MCRP 3-32D.1 Electronic Warfare
5. MCTP 2-10B MAGTF Intelligence Production and Analysis

CHAINED EVENTS:

PREREQUISITE EVENTS:
TEAM-SCTY-3001 TEAM-SCTY-3002

OCE-OCO-5001: Conduct RF enabled offensive cyberspace operations command and control

SUPPORTED MET(S):
MCT 2.7 MCT 5.1.1.7 MCT 5.4.1.2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

CONDITION: Given certified personnel, authorities, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits and constraints authorities, mission tasks, and parameters.

EVENT COMPONENTS:
1. Review mission tasking.
2. Establish SCIF.
3. Establish SCI communications.
4. Assist in planning cyberspace operations.
5. Direct cyberspace operations support.
6. Conduct RFI management.

REFERENCES:
1. EO 12333 U.S. Intelligence Activities (As Amended)
2. ICD 705.1 Physical Security Standards for Sensitive Compartmented Information Facilities

3. MCRP 2-10A.1 Signals Intelligence
4. MCRP 3-32D.1 Electronic Warfare
5. MCTP 2-10B MAGTF Intelligence Production and Analysis

OCE-OCO-5002: Conduct offensive cyberspace operations

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

CONDITION: Given authorities, certified personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits, constraints, mission tasks, and parameters.

EVENT COMPONENTS:
1. Review mission tasking.
2. Coordinate OCO targeting.
3. Execute OCO.
4. Assess OCO effects.

REFERENCES:
1. JP 3-12 Cyberspace Operations
2. MCO 3100.4 Cyberspace Operations

CHAINED EVENTS:

PREREQUISITE EVENTS:

TEAM-SCTY-3001	TEAM-SCTY-3002	

EXTERNAL SUPPORTED EVENTS:

ANGL-FSCC-5005	ANGL-FSCC-5010	ANGL-FSCC-5020
CE-FIRE-9001	FSCC-BFST-4005	FSCC-BFST-4010
FSCC-BFST-4020	MEU-FSPT-8301	MEU-FSPT-8302
MEU-FSPT-8303	MEU-FSPT-8304	

OCE-OPS-5001: Support Targeting

SUPPORTED MET(S):
MCT 5.4.1.2 MCT 5.9.2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits, constraints, mission tasks, and parameters.

EVENT COMPONENTS:
1. Review mission tasking.
2. Sync effect-based targeting.
3. De-conflict effects based targeting.
4. Disseminate time-sensitive information for targeting.
5. Liaise with targeting cell.

6. Support deliberate targeting.
7. Support Dynamic targeting.
8. Maintain target knowledge.
9. Update target list.
10. 1Assist with BDA

REFERENCES: MCRP 2-10A.1 Signals Intelligence

3006. INDEX AND LIST OF 6000 LEVEL COLLECTIVE EVENTS

OCAC-DATA-6001: Plan intelligence architecture integration

SUPPORTED MET(S):
MCT 2.9 MCT 5.4.1.2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

CONDITION: Given authorities, certified personnel, currently-fielded equipment, mission tasking, commander's guidance, intelligence requirements, references, access to available intelligence communications networks, domains, and resources

STANDARD: Ensure the commander and staff has an automated intelligence operations architecture to satisfy intelligence requirements.

EVENT COMPONENTS:
1. Review mission tasking.
2. Conduct site survey.
3. Identify organic/non-organic resources.
4. Coordinate with internal/external entities.
5. Plan against environmental requirements/considerations.
6. Determine system requirements.
7. Determine communications requirements.
8. Allocate resources.
9. Develop communications plan.
10. Incorporate Special Intelligence Computer Network Defense Plan.
11. Validate Continuity of Operations (COOP) Plan.

REFERENCES:
1. CJCSM 6231.04B Manual for Employing Tactical Communications
2. EKMS-1 (series) EKMS Policy and Procedures for Navy EKMS Tiers 2 & 3
3. JP 2-02 National Intelligence Support to Joint Operations
4. JP 6-0 Joint Communications System
5. MCRP 2-10A.1 Signals Intelligence

6. MCRP 3-30B.2 MAGTF Communications System
7. MCWP 6-22 Communications and Information Systems

OCAC-DATA-6002: Integrate Intel/EW/Cyber Systems

SUPPORTED MET(S):
MCT 2.9 MCT 5.4.1.2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

CONDITION: Given authorities, certified personnel, currently-fielded equipment, mission tasking, commander's guidance, intelligence requirements, references, access to available intelligence communications networks, domains, and resources

STANDARD: Provide the commander and staff an automated intelligence operations architecture to satisfy intelligence requirements.

EVENT COMPONENTS:
1. Review mission tasking.
2. Review communications plan.
3. Integrate cross-domain capabilities.
4. Coordinate with internal/external entities.
5. Prepare Authorizations-to-Connect (ATC).
6. Implement system security requirements.
7. Implement data security/access controls.
8. Execute data flow management plan.
9. Integrate systems resources/capabilities for specified mission.
10. Report security violations to higher.

REFERENCES:
1. CJCSM 6231.04B Manual for Employing Tactical Communications
2. EKMS-1 (series) EKMS Policy and Procedures for Navy EKMS Tiers 2 & 3
3. JP 2-02 National Intelligence Support to Joint Operations
4. JP 6-0 Joint Communications System
5. MCRP 2-10A.1 Signals Intelligence
6. MCRP 3-30B.2 MAGTF Communications System
7. MCWP 6-22 Communications and Information Systems

OCAC-EW-6001: Plan electronic warfare operations

SUPPORTED MET(S):
MCT 2.1.1.5 MCT 5.4.1.2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: This task outlines the procedures the OCAC will take in planning electronic warfare operations. Since SSTs, RRTs, and LAV-EWs are SIGINT/EW assets, the OCAC will play a vital role in coordinating EA operations as well as deconflicting ES and SIGINT operations. In order to effectively plan EW operations, the OCAC must participate in MAGTF B2C2WG events and establish relationships with supported commands.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: Satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits and constraints, authorities, mission tasks, and parameters.

EVENT COMPONENTS:

1. Coordinate with Higher, adjacent spectrum management and EW agencies.
2. Determine feasibility of support.
3. Plan communications.
4. Plan integration of EW data.
5. De-conflict with the JRFL.
6. Develop knowledge management plan.
7. Develop information management plan.
8. Determine B2C2WG support.
9. Determine table of organization requirements.
10. Determine table of equipment requirements.
11. Develop target knowledge.
12. Establish relationships with supported commands.
13. Request authorities.

REFERENCES:

1. EO 12333 U.S. Intelligence Activities (As Amended)
2. ICD 705.1 Physical Security Standards for Sensitive Compartmented Information Facilities

3. MCRP 2-10A.1 Signals Intelligence
4. MCRP 3-32D.1 Electronic Warfare
5. MCTP 2-10B MAGTF Intelligence Production and Analysis

CHAINED EVENTS:

PREREQUISITE EVENTS: TEAM-SIEW-3001

INTERNAL SUPPORTING EVENTS:

OCAC-DATA-6001 OCAC-DATA-6002

EXTERNAL SUPPORTED EVENTS:

INF-FSPT-7001 INF-FSPT-8001 MEU-FSPT-8301 MEU-FSPT-8302

OCAC-EW-6002: Conduct EW operations

SUPPORTED MET(S):

MCT 2.1.1.5 MCT 5.4.1.2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: Units must be able to conduct electronic warfare (EW) operations in support of the ground force MAGTF commander's (GFC) scheme of maneuver (SOM) to maintain and preserve their supremacy of the electro-magnetic spectrum in the information environment. In order to do this, units must plan and de-conflict frequency exploitation and degradation to gain the most out of EW operations. When conducting the electronic attack sub-section of EW operations, adjacent unit fratricide is the greatest risk that commanders assume. Best practices to mitigate that risk is to use the Fires Effect Coordination Cell (FECC), spectrum managers, the Joint Restricted Frequency List (JRFL), the Electronic Attack (EA) Clearance Guide, and the Joint Automated Communications-Electronics Operating Instructions (J-ACEOI). A major part of EW operations is gaining a measure of effectiveness/measure of performance (MEO/MOP). This is difficult at best, but when able, can provide a significant force multiplier to the ground forces conducting the operation. MOE/MOP allow the GFC commander to conduct re-attack operations or switch to a portion of spectrum that may be easier exploited.

CONDITION: Given authorities, personnel, currently-fielded equipment, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commanders planning, decision, execution, and assessment within established time limits, constraints mission tasks, and parameters.

EVENT COMPONENTS:
1. Identify tasking.
2. Review tasking
3. Conduct electronic warfare support.
4. Conduct electronic attack.
5. Conduct electronic protect.
6. Assess measures of effectiveness
7. Update electronic warfare libraries.
8. Produce integrated broadcast system data.
9. Report measures of effectiveness and measures of performance.

REFERENCES:
1. EO 12333 U.S. Intelligence Activities (As Amended)
2. JP 3-13.1 Electronic Warfare
3. MCRP 3-32D.1 Electronic Warfare

CHAINED EVENTS:

PREREQUISITE EVENTS:
OCE-EW-5001 OCE-EW-5002

OCAC-INTL-6001: Plan SIGINT operations

SUPPORTED MET(S):
MCT 2.1.1.5 MCT 2.8

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: SIGINT operations produces intelligence on the enemy's capabilities, intent, and operations by exploiting the enemy's use of communication, radars, and electronic systems. Radio Battalions elements conduct SIGINT operations in order to provide timely and usable SIGINT information which answers the MAGTF commander's PIRs and other MAGTF IRs. Information derived from SIGINT operations supports the intelligence cycle, as well as the commander and the unit's overall mission while providing the commander and staff with situational awareness. Each of the SIGINT operations priorities of work from security, communications, through collection must be planned for, and in most cases require requests for approval. Security of SIGINT operations is defined as an approved and active Sensitive Compartmented Information Facility (SCIF). Communications in support of SIGINT operations is enabled by high-bandwidth Sensitive Compartmented Information (SCI) communications, which allows database accesses that are granted based on the completion of the appropriate prerequisites and appointment of the required Intelligence Oversight Officer (IOO), and Database Auditors. SIGINT collection operations may then be tasked to Radio Battalion elements by a competent authority and in accordance with approved SIGINT concept of operations (S-CONOP) and temporary SIGINT Operational Tasking Authority IAW MCRP 2-10A.1.

CONDITION: Given personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials

STANDARD: To satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits and constraints, authorities, mission tasks, and parameters.

EVENT COMPONENTS:
1. Coordinate with relevant IC agencies, COCOM, HHQ, and organic assets.
2. Plan communications.
3. Provide input to collection requirements management.
4. Develop knowledge management plan.
5. Develop information management plan.
6. Determine B2C2WG support.
7. Determine table of organization requirements.
8. Determine table of equipment requirements.
9. Establish expeditionary intel support requirements.
10. Allocate resources to supported commanders.
11. Develop target knowledge.
12. Establish relationships with supported commands.
13. Request authorities.
14. Request accesses.
15. Establish SCIF requirements.
16. Develop SIGINT concept of operations.

REFERENCES:

1. MCDP 2 Intelligence
2. MCRP 2-10A.1 Signals Intelligence
3. MCRP 3-32D.1 Electronic Warfare
4. MCTP 2-10B MAGTF Intelligence Production and Analysis

CHAINED EVENTS:

INTERNAL SUPPORTING EVENTS: OCAC-DATA-6002

EXTERNAL SUPPORTED EVENTS:

ANGL-FSCC-5005	ANGL-FSCC-5010	ANGL-FSCC-5020
CE-FIRE-9001	FSCC-BFST-4005	FSCC-BFST-4010
FSCC-BFST-4020	MEU-FSPT-8301	MEU-FSPT-8302
MEU-FSPT-8303	MEU-FSPT-8304	

OCAC-INTL-6002: Conduct SIGINT operations

SUPPORTED MET(S):

MCT 2.7	MCT 5.1.1.7	MCT 5.4.1.2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: SIGINT operations produces intelligence on the enemy's capabilities, intent, and operations by exploiting the enemy's use of communication, radars, and electronic systems. Radio Battalions conduct SIGINT operations in order to provide timely and usable SIGINT information which answers the MAGTF commander's PIRs and other MAGTF IRs. Information derived from SIGINT operations supports the intelligence cycle, as well as the commander and the unit's overall mission while providing the commander and staff with situational awareness. Radio Battalion collects, processes, analyzes, and exploits SIGINT, and produces, and disseminates SIGINT reports and products. Raw collected information is processed through traffic, linguistic, signal and ELINT analysis as well as cryptanalysis to yield SIGINT products and technical reports, which enable multiple warfighting functions such as force protection by providing indications and warnings (I&W) and/or targeting through direction finding (DF) or precision geo-location (PGL) of the adversary.

CONDITION: Given authorities, personnel, currently-fielded equipment, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits, constraints, mission tasks, and parameters.

EVENT COMPONENTS:

1. Establish SCIF.
2. Establish communications.
3. Conduct collection requirements management.

4. Conduct collection operations management.
5. Conduct cryptologic intelligence oversight.
6. Execute IMO plan.
7. Execute KMO plan.
8. Contribute SIGINT support to the intelligence cycle.
9. Execute battle rhythm.
10. Determine analytic priorities.
11. Conduct SIGINT analysis.
12. Liaise w/ external agencies/commands.
13. Conduct SIGINT asset command and control (Resource management).
14. Provide support to battle damage assessment.
15. Provide support to targeting.
16. Conduct SIGINT reporting.
17. Provide I&W.
18. Provide crypto-linguist.
19. Coordinate with COC.
20. Disseminate SIGINT reporting.

REFERENCES:
1. EO 12333 U.S. Intelligence Activities (As Amended)
2. ICD 705.1 Physical Security Standards for Sensitive Compartmented Information Facilities

3. MCRP 2-10A.1 Signals Intelligence
4. MCRP 3-32D.1 Electronic Warfare
5. MCTP 2-10B MAGTF Intelligence Production and Analysis

CHAINED EVENTS:

PREREQUISITE EVENTS:
TEAM-SCTY-3001 TEAM-SCTY-3002

OCAC-INTL-6003: Support targeting

SUPPORTED MET(S):
MCT 2.1.1.5 MCT 2.7 MCT 2.8
MCT 5.4.1.2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The OCAC will coordinate/Conduct SIGINT, EW, and Cyberspace operations in accordance with intelligence functions which support kinetic and non-kinetic targeting by identifying target systems, critical nodes, high-value/high-payoff targets (HPTs) (includes high value individuals, or HVIs) and providing the effect required based upon mission tasking to most effectively engage targets in support of The mission. Under certain circumstances, intelligence sections may be required to produce target lists in specified formats based upon target knowledge and analysis. During the targeting process analyst provide intelligence assessments that take in to account weather or terrain and enemy to identify enemy formations, equipment, facilities, and terrain which when attacked or controlled will severely impact the adversary or will benefit friendly operations. Upon conduct of operation the OCAC will provide SIGINT/EW/Cyber combat assessment in support of the battle damage assessment. Task steps and performance measures may not apply to every staff, unit or echelon and are dependent upon mission variables and time available

CONDITION: Given authorities, subordinate elements, personnel, currently-fielded equipment, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits, constraints, mission tasks, and parameters.

EVENT COMPONENTS:

1. Review mission tasking
2. Sync effect-based targeting.
3. De-conflict effects based targeting
4. Disseminate time-sensitive information for targeting.
5. Liaise with targeting cell.
6. Support deliberate targeting
7. Support Dynamic targeting
8. Maintain target knowledge.
9. Update target list.
10. Assist w/ BDA

REFERENCES:

1. JP 3-60 Joint Targeting
2. MCDP 2 Intelligence
3. MCRP 2-10A.1 Signals Intelligence
4. MCTP 2-10A MAGTF Intelligence Collection
5. MCTP 2-10B MAGTF Intelligence Production and Analysis
6. MCTP 2-10E Marine Radio Battalion

OCAC-OCO-6001: Plan offensive cyberspace operations

SUPPORTED MET(S): MCT 5.9.2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

CONDITION: Given personnel, subordinate elements, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits, constraints, mission tasks, and parameters.

EVENT COMPONENTS:
1. Identify target.
2. Identify effect.
3. Identify capabilities.
4. Identify authorities/orders.
5. Identify MOP/MOE.
6. ID Target vulnerabilities.
7. De-conflict.

REFERENCES:
1. JP 3-12 Cyberspace Operations
2. MCO 3100.4 Cyberspace Operations

CHAINED EVENTS:

EXTERNAL SUPPORTED EVENTS:

ANGL-FSCC-5005	ANGL-FSCC-5010	ANGL-FSCC-5020
CE-FIRE-9001	FSCC-BFST-4005	FSCC-BFST-4010
FSCC-BFST-4020	MEU-FSPT-8301	MEU-FSPT-8302
MEU-FSPT-8303	MEU-FSPT-8304	

OCAC-OCO-6002: Conduct RF enabled OCO command and control

SUPPORTED MET(S):
MCT 5.4.1.2 MCT 5.9.2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

CONDITION: Given personnel, currently-fielded equipment, mission tasking, commander's guidance, intelligence requirements, references, access to available communications networks, and materials.

STANDARD: To satisfy the commander's planning, decision, execution, and assessment (PDE&A) within established time limits and constraints authorities, mission tasks, and parameters.

EVENT COMPONENTS:

1. Submit request to higher approval authority.
2. Direct conduct of OCO.
3. Determine MOP/MOE.
4. Report OCO.
5. Coordinate Follow on actions.
6. Report battle damage assessment.
7. Request Restrike.

REFERENCES:

1. EO 12333 U.S. Intelligence Activities (As Amended)
2. MCRP 2-10A.1 Signals Intelligence
3. MCRP 3-32D.1 Electronic Warfare
4. MCTP 2-10B MAGTF Intelligence Production and Analysis

CHAINED EVENTS:

EXTERNAL SUPPORTED EVENTS:

CE-FIRE-9001	FSCC-BFST-4005	FSCC-BFST-4020
MEU-FSPT-8301	MEU-FSPT-8303	MEU-FSPT-8304

SIGINT T&R MANUAL

CHAPTER 4

MOS 2600 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 4

MOS 2600 INDIVIDUAL EVENTS

4000. PURPOSE. This chapter details the individual events that pertain to basic Signals Intelligence/Electronic Warfare Operators. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

4001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2600	Basic Signals Intelligence/ Electronic Warfare Operator

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
ANYS	Analysis
COMM	Communication
EW	Electronic Warfare
INTL	Intelligence
PLAN	Planning
PROC	Process
SCTY	Security
SIEW	Signals Intelligence/ Electronic Warfare

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
1000	Core Skills
2000	Core Plus Skills

4002. INDEX OF 2600 INDIVIDUAL EVENTS

2600-COMM-1002	Construct a field expedient antenna (FEA)	4-6
2600-COMM-1003	Employ antennas	4-6
2600-COMM-1004	Handle cryptographic material	4-7
2600-EW-1001	Define EW fundamentals	4-8
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2000 Level Events		
2600-COLL-2001	Conduct collections requirements management	4-11
2600-COLL-2002	Conduct collection operations management	4-12
2600-COLL-2003	Configure signal processing tools	4-13
2600-COMM-2001	Establish over the horizon communications	4-14
2600-COMM-2002	Conduct HBSI communications in support of intelligence operations	4-17
2600-EW-2001	Conduct electronic attack	4-20
2600-EW-2002	Conduct electronic warfare support	4-21
2600-EW-2003	Provide EA input into the fire support coordination plan	4-21
2600-EW-2004	Conduct dynamic EW targeting	4-22
2600-INTL-2001	Conduct computer network exploitation (CNE)	4-23
2600-INTL-2002	Conduct intelligence briefings	4-24
2600-INTL-2003	Conduct Basic SIGINT analysis	4-25
2600-INTL-2004	Produce time sensitive SIGINT reports	4-26
2600-INTL-2005	Access intelligence repositories	4-27
2600-INTL-2006	Conduct network analysis	4-29
2600-INTL-2007	Analyze data retrieved from the Integrated Broadcast Service	4-30
2600-PLAN-2001	Plan team operations	4-32
2600-PLAN-2002	Establish a tactical SIGINT/EW operations site	4-33
2600-PROC-2001	Prepare collection reports for follow on analysis	4-35
2600-SCTY-2001	Develop an emergency action plan (EAP)	4-36
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2600-SIEW-2001	Conduct power usage assessment	4-38
2600-SIEW-2002	Conduct precision geolocation	4-39
2600-SIEW-2003	Collect signals in the electromagnetic spectrum	4-40
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4003. 2600 INDIVIDUAL EVENTS

2600-ANYS-1001: Conduct critical thinking

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Analysts must perform their functions with objectivity and with awareness of their own assumptions and reasoning. They must employ reasoning techniques and practical mechanisms that reveal and mitigate bias. Analyst should be alert to influence by existing analytic positions or judgements and must consider alternative perspectives and contrary information. Analysis should not be unduly constrained by previous judgements when new developments indicate a modification is necessary. Analytic assessments must not be distorted by, nor shaped for, advocacy of a particular audience, agenda, or policy viewpoint. Analytic judgements must not be influenced by the force of preference for a particular policy. Analysis must be disseminated in time for it to be actionable by customers. Analytic elements have the responsibility to be continually aware of events of intelligence interest, of customers' activities and schedules, and of intelligence requirements and priorities, in order to provide useful analysis at the right time. Analysts should be informed by all available and relevant information. Analytic elements should identify and address critical information gaps and work with collection activities and data providers to develop access and collection strategies. (ICD 203 Analytic Standards)

The SIGINT/EW Marine will evaluate all sources of collected information, other reporting, and intelligence products to answer intelligence requirements (IRs). Domains pertaining to this event include air, land, maritime, space and cyberspace. All SIGINT/EW Marines must be able to conduct basic analysis regardless of their assigned work role. MCRP 2-10B.1 Intelligence Preparation of the Battlefield/Battlespace.

MOS PERFORMING: 2621, 2629, 2631, 2641, 2651

BILLETS: Communications Chief, OCAC Marine, OCE Marine, Radio Reconnaissance Marine, SCI Communications Operator, SIEW Team Leader, SIEW Team Member, SIEW Technician, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given a higher headquarters order, commander's guidance, Priority Intelligence Requirements (PIRs) and/or Information Needs (IN), applicable references, access to web based tools, and reporting while operating within a non-automated, automated tactical environment.

STANDARD: Accurately estimate adversary capabilities, vulnerabilities and adversarial impacts to operations to support the commander's planning, decision, execution, and assessment (PDE&A) requirements within established time limits and constraints. (ICD 203 Analytic Standards, Pp. 2-4)

PERFORMANCE STEPS:

1. Identify the problem.
2. Define the intelligence issue.
3. Gather relevant information.
4. Apply appropriate analytic techniques.
5. Determine supported information requirements.
6. Generate an assessment.
7. Seek internal review.

REFERENCES:

1. EO 12333 U.S. Intelligence Activities (As Amended)

2. ICD 203 Analytic Standards
3. MCRP 2-10A.1 Signals Intelligence
4. MCTP 2-10B MAGTF Intelligence Production and Analysis
5. Psychology of Intelligence Analysis Psychology of Intelligence Analysis
6. USSID CR1500
7. USSID CR1501
8. USSID SP0101

SUPPORT REQUIREMENTS:

ROOMS/BUILDINGS: Classroom environment

EQUIPMENT: Computer with CAC reader, Internet access, Projection capability

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
MCISRE Analyst's Quick Reference Guide.
Learning Aids: Scenario based performance exercises

2600-COMM-1001: Conduct communications in support of intelligence operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

DESCRIPTION: The individual will be able to establish secure voice and data communications with currently-fielded equipment to support an intelligence mission. CJCSM 6231.04B Manual for Employing Tactical Communications

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, currently-fielded communications equipment, Communications/Electronics Operating Instructions (CEOI), cryptographic material and equipment, and ancillary equipment

STANDARD: To maintain secure communications within a time limit established by a commander.

PERFORMANCE STEPS:
1. Apply RF theory.
2. Inventory communication components.
3. Set up communication equipment and ancillary components, as required.
4. Upload appropriate cryptographic material.
5. Establish secure voice communications.
6. Establish secure data communications.
7. Employ low probability intercept, low probability detection techniques.

REFERENCES:
1. CJCSM 6231.04B Manual for Employing Tactical Communications
2. EKMS-1 (series) EKMS Policy and Procedures for Navy EKMS Tiers 2 & 3
3. ISBN 978-0-87259-677-1 The ARRL Handbook for Radio Communications, 2012 Edition
4. ISBN 978-0-87259-694-8 ARRL Antenna Book, 22nd Edition

5. MCO 5239.2B Marine Corps Cybersecurity
6. MCRP 8-10B.10 Radio Operator's Handbook
7. MCRP 8-10B.11 Antenna Handbook

2600-COMM-1002: Construct a field expedient antenna (FEA)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Signals Intelligence operators and Electronic Warfare practitioners must be able to construct field expedient antennas. ISBN 978-0-87259-677-1 The ARRL Handbook for Radio Communications, 2012 Edition (Commercial Publication)

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, antenna equipment, and currently-fielded communications equipment and/or collection equipment.

STANDARD: To satisfy transmit and/or receive requirements, in the time allotted by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Identify antenna characteristics based on antenna theory.
3. Identify operational constraints.
4. Identify environmental constraints.
5. Determine the appropriate FEA.
6. Construct antenna.

REFERENCES:
1. ISBN 978-0-87259-677-1 The ARRL Handbook for Radio Communications, 2012 Edition
2. ISBN 978-0-87259-694-8 ARRL Antenna Book, 22nd Edition

3. MCRP 8-10B.10 Radio Operator's Handbook
4. MCRP 8-10B.11 Antenna Handbook

2600-COMM-1003: Employ antennas

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The individual will be able to employ both field expedient antennas (FEA) and manufactured antennas for the conduct of Intelligence-related missions. ISBN 978-0-87259-677-1 The ARRL Handbook for Radio Communications, 2012 Edition (Commercial Publication)

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Provided an antenna and a transceiver or receiver.

STANDARD: Transmit or receive a signal, within a time limit established by the commander.

PERFORMANCE STEPS:

1. Identify antenna characteristics based on antenna theory.
2. Identify operational constraints associated with FEAs and manufactured antennas.
3. Identify environmental constraints associated with FEAs and manufactured antennas.
4. Determine appropriate antennas to utilize based upon characteristics and capabilities of antenna.
5. Connect antenna.
6. Transmit.
7. Receive.
8. Adjust employment to improve communications, as required.
9. Apply low probability of intercept and low probability of detect techniques in electronic warfare/communication operations.

REFERENCES:

1. ISBN 978-0-87259-677-1 The ARRL Handbook for Radio Communications, 2012 Edition
2. ISBN 978-0-87259-694-8 ARRL Antenna Book, 22nd Edition
3. Local SOP Local Standard Operating Procedures
4. MCRP 8-10B.10 Radio Operator's Handbook
5. MCRP 8-10B.11 Antenna Handbook

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

2600-COMM-1004: Handle cryptographic material

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The individual will be able to store, use, and destroy cryptographic material, in accordance with regulations governing the handling of cryptographic material. ISBN 978-0-87259-677-1 The ARRL Handbook for Radio Communications, 2012 Edition (Commercial Publication)

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, the authorized keying material and communications security (COMSEC) equipment

STANDARD: To protect against inadvertent loss, destruction, improper storage, or compromise.

PERFORMANCE STEPS:
1. Employ two person integrity (TPI).
2. Ensure proper documentation.
3. Issue cryptographic material.
4. Account for cryptographic material.
5. Store cryptographic material.
6. Load cryptographic material.
7. Transfer custody of cryptographic material.
8. Transport cryptographic material as required.
9. Destroy cryptographic material as required.
10. Report Destruction.
11. Maintain destruction log.

REFERENCES: EKMS-1 (series) EKMS Policy and Procedures for Navy EKMS Tiers 2 & 3

2600-EW-1001: Define EW fundamentals

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: Individuals must understand the foundations of EW to be successful at employing EW capabilities. Successful military operations now greatly depend on control of the electromagnetic spectrum. The force that can deprive the enemy the use of the electromagnetic spectrum, exploit the enemy's use of the electromagnetic spectrum to obtain information for its own purposes, and control the electromagnetic spectrum will have an important advantage. Electronic warfare is an important part of a military commander's arsenal of weapons. Electronic Warfare (EW) allows a commander to provide electronic warfare support (ES), electronic attack (EA), and electronic protection (EP). MCRP 3-32D.1 Electronic Warfare

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references.

STANDARD: Provide a comprehensive brief of the divisions of EW.

PERFORMANCE STEPS:
1. Explain ES.
2. Explain EA.
3. Explain EP.
4. Explain the differences between SIGINT and ES.
5. Explain report formats.
6. Determine report to use.

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. MCRP 3-32D.1 Electronic Warfare
3. MCRP 8-10B.10 Radio Operator's Handbook

2600-PROC-1001: Process reportable information

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The individual will review raw or evaluated/minimized information and compare it to information requirements (IR) to recognize reportable information. Types of reports include but not limited to: collection report, DF/geolocation report. EW report, and joint spectrum interference report. MCRP 3-32D.1 Electronic Warfare

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given IRs, and raw or evaluated/minimized traffic.

STANDARD: Satisfy IRs in the time allotted by the commander.

PERFORMANCE STEPS:
1. Review IRs.
2. Evaluate traffic.
3. Minimize traffic.
4. Identify EEIs.
5. Correlate EEI(s) to existing IR(s).
6. Identify time sensitive information.
7. Develop applicable report.
8. Disseminate report.

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. MCRP 3-32D.1 Electronic Warfare
3. USSID CR1231
4. USSID CR1283
5. USSID CR1284 USSID CR1284
6. USSID CR1400 SIGINT Reporting
7. USSID CR1500
8. USSID CR1501
9. USSID CR1601 USSID CR1601
10. USSID CR1610 USSID CR1610
11. USSID CR1611 USSID CR1611

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

2600-SCTY-1001: Apply security procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The individual will ensure that all classified material and classified information is properly safeguarded and its distribution is limited to authorized personnel and communications channels. Classified and sensitive information and material must be properly marked, stored, and protected. DODD 5105.21-M-1 Sensitive Compartmented Information (SCI) Security Manual, Administrative Security

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given classified material, and information

STANDARD: To prevent security violations and compromises.

PERFORMANCE STEPS:
1. Mark all material with proper classification, as directed.
2. Store classified material.
3. Account for all classified material, as required.
4. Courier classified material, as required.
5. Transmit classified material according to references, as required.
6. Use classified material.
7. Sanitize work spaces, as required.
8. Apply OPSEC measures.
9. Apply INFOSEC measures.
10. Apply COMPUSEC measures.
11. Destroy classified material, as required.

REFERENCES:
1. DODD 5105.21-M-1 Sensitive Compartmented Information (SCI) Security Manual, Administrative Security
2. ICD 705 Sensitive Compartmented Information Facilities
3. ICD 705 Technical Specifications Version 1.4
4. ICPG 705.1 Physical and Technical Standards for Sensitive Compartmented Information Facilities
5. ICPG 705.2 Standards for the Accreditation and Reciprocal Use of Sensitive Compartmented Information Facilities
6. SECNAV M-5510.30 Department of the Navy Personnel Security Program
7. SECNAVINST 5510.36B Department of the Navy Information Security Program

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

2600-COLL-2001: Conduct collections requirements management

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Successful MAGTF intelligence collection seeks to help reduce uncertainty regarding the enemy, weather, terrain, and operations environment to satisfy commander's priority intelligence requirements and other intelligence requirements. CRM focuses on the commander's requirements, supported units, and planning by organizing, prioritizing, validating, and managing assigned collection requirements. (MCTP 2-10A, Pp. 1-1, 2-1)

MOS PERFORMING: 2621, 2629, 2631, 2641

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given a mission tasking statement, prioritized intelligence requirements, indicators, SIRs/SORs, and a listing of available tactical SIGINT collection resources.

STANDARD: Construct a collection plan that includes a numerical system for tracking assigned PIRs/IRs, originator, asset allocation, time requirements, and reporting means to the next echelon in SIGINT processing chain. (MCTP 2-10A, P. 2-3)

PERFORMANCE STEPS:

1. Review tasking.
2. Review PIR's and IR's.
3. Construct a numerical tracking plan for assigned requirements based on assigned PIRs/IRs.
4. Identify latest time intelligence is of value (LTIOV).
5. Determine feasibility of the indicators associated with the tasking.
6. Determine if SIRs are realistic for organic tactical SIGINT resources.
7. Identify reporting methods to higher echelon in the SIGINT production chain.
8. Present collection plan to higher for review.

REFERENCES: MCTP 2-10A MAGTF Intelligence Collection

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
SUPPLEMENTARY REFERENCE:
1. MCWP 2-10 Intelligence Operations
SUPPORT REQUIREMENTS:
Chained events:
Internal Supported Events:
TEAM-INTL-3001: Develop Team Collection Plan, TEAM-PLAN-3001: Conduct SI/EW team planning

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2600-COLL-2002: Conduct collection operations management

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The COM process organizes, directs, and monitors the units, equipment, and personnel that actually collect the data to satisfy the ICRs; it's concerned with the mission management and asset management of collections. (MCTP 2-10A, P. 3-1)

MOS PERFORMING: 2621, 2629, 2631, 2641

BILLETS: Communications Chief, OCAC Marine, OCE Marine, SIEW Technician, Special Operations Capability Specialist

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given a mission tasking statement, prioritized intelligence requirements, indicators, and a listing of available tactical SIGINT collection resources.

STANDARD: Integrate asset management into a collection plan that delineates asset tasking, exploitation, reporting, and system status. (MCTP 2-10A, Pp. 3-1, 3-2)

PERFORMANCE STEPS:
1. Review tasking.
2. Determine organic tactical SIGINT collection system capabilities.
3. Align organic SIGINT collection systems to assigned collection tasking.
4. Determine redundant capabilities in advance of equipment failure.
5. Develop a way to track organic tactical SIGINT collection system status.
6. Report collection site location to higher.
7. Report collection equipment status to higher.

REFERENCES: MCTP 2-10A MAGTF Intelligence Collection

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
SUPPLEMENTARY REFERENCES:
1. MCWP 2-10 Intelligence Operations
SUPPORT REQUIREMENTS:
Chained Events
Prerequisite Events:
2600-PROC-2002
Internal Supported Events:
2600-ANYS-1001

2600-COLL-2003: Configure signal processing tools

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: During collection, organic, attached, and supporting SIGINT elements collect and deliver information to the appropriate processing or production element. When SOIs are acquired that are readily exploitable, SIGINT collection operators prepare a gist of the transmission. Recording of the entire intercepted signal using tape recorders may also occur. (MCRP 2-10A.1, P. 7-6)

MOS PERFORMING: 2621, 2629, 2631, 2641, 2651

BILLETS: Radio Reconnaissance Marine, SCI Communications Operator, SIEW Team Leader, SIEW Team Member, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given IRs, readily exploitable raw traffic data, specific SOIs, and currently fielded tactical collection equipment.

STANDARD: Collect and prepare readily exploitable signals for follow-on analytic processing. (MCRP 2-10A.1, P 7-6)

PERFORMANCE STEPS:

1. Set currently fielded tactical collection equipment with SOI parameters.
2. Identify required signal processing tools (application and/or specific equipment) according to SOI type.
3. Perform demodulation, decoding, decryption, or descrambling on collected readily exploitable signal.
4. Isolate internals (actual message traffic) and externals (callsigns, traffic metadata, preambles, postambles).

REFERENCES: MCRP 2-10A.1 Signals Intelligence

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

SUPPLEMENTARY REFERENCES:

1. USSID 300 NSA/CSS Cryptologic Functional Support Planning for Military Operations
2. NSA/CSS Policy 11-9 NSA/CSS Support to Electronic Warfare and Joint Electromagnetic Spectrum Operations
3. USSID 6
4. USSID 212
5. USSID 217
6. USSID 219
7. USSID 206 SIGINT Dissemination for Analytic Collaboration

Chained Events

External Supported Events:

INF-ANTI-4001, INF-FP-4001, INF-MAN-4001, INF-MAN-4006, INF-MAN-4012, INF-MAN-4013, INF-MORT-4001, INF-MORT-4002, INF-0317-5001, INF-0317-5002, INF-C2-5002, INF-FP-5001, INF-INT-5001, INF-MAN-5001, INF-MAN-5002, INF-MAN-5006, INF-MAN-5009, INF-MAN-5012, INF-MAN-5013, INF-MAN-5014, INF-MORT-5001, INF-STAB-5002, INF-STAB-5003, INF-STAB-5004 (NAVMC 3500.44D)
RECN-GRND-3002, RECN-SHAP-3026, RECN-AMPH-4008, RECN-C2-4007, RECN-C2-4008, RECN-C2-4009, RECN-COLL-4001, RECN-FP-4001, RECN-GRND-4001, RECN-GRND-4004, RECN-GRND-4007, RECN-GRND-4020, RECN-GRND-4021, RECN-GRND-4028, RECN-INTL-4001, RECN-RAID-4002, RECN-RAID-4003, RECN-RAID-4004, RECN-RAID-4005, RECN-SHAP-4001, RECN-SHAP-4002, RECN-SHAP-4007, RECN-SURV-4001, (NAVMC 3500.55C)
MSOF-C2-4023, MSOF-C2-4024, MSOF-C2-4025, MSOF-C2-4027, MSOF-C2-4028, MSOF-DA-4100, MSOF-DA-4101, MSOF-DA-4102, MSOF-FID-4201, MSOF-FID-4204, MSOF-FID-4205, MSOF-FSPT-4230, MSOF-PE-4400, MSOF-SR-4600, MSOF-SR-4601, MSOF-SR-4602, MSOF-SR-4603, MSOF-SR-4604, MSOF-SR-4605, MSOF-SR-4606, MSOF-SR-4607, MSOF-SR-4608, MSOF-SR-4609, MSOF-SR-4610, MSOF-SR-4611, MSOF-SR-4615, MSOF-SR-4616, MSOF-SR-4618, MSOF-UW-4700, MSOF-UW-4703, MSOF-US-4715, MSOF-IW-4800 (NAVMC 3500.97)

2600-COMM-2001: Establish over the horizon communications

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The communications system is expanded to provide improved information flow between the JFC and component commanders. As the system deploys, large pieces are extended into the operational area. The objective is to provide for the continuous flow of information between commanders during the initial phases of the operation and establish the base strategic and tactical communications system infrastructure to support follow-on operations.

This phase of the operation relies on a mix of strategic, commercial, and tactical communications to support the introduction of forces into an operational area. The JFC employs super-high frequency (SHF) SATCOM, extremely high-frequency SATCOM, tropospheric scatter radio, and other military and commercial assets to support strategic and tactical long-haul communications requirements. The joint force uses other systems, such as ultrahigh frequency (UHF), very high frequency, high frequency, and low frequency/very low frequency radios, to provide redundancy and support internal information requirements, as well as to support tactical users most vulnerable to disconnection, intermittent, and low-bandwidth limitations. (JP 6-0, Ch 3, Pg 25-26)

MOS PERFORMING: 2621, 2629, 2631, 2641, 2651

BILLETS: Radio Reconnaissance Marine, SCI Communications Operator, SIEW Team Leader, SIEW Team Member, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Provided planning documents, equipment, cryptographic keying material and references.

STANDARD: To establish an over the radio horizon communications link in accordance with the communications plan. (MCRP 3-40.3A, Ch 1-5)

PERFORMANCE STEPS:

1. Identify safety hazards and personal protective equipment (PPE).
2. Install radio systems.
3. Install antenna, as required.
4. Configure radio systems.
5. Install remoting device, as required.
6. Configure remoting device, as required.
7. Load radio systems with cryptographic keying material, as required.
8. Establish a secure over the radio horizon radio link.
9. Conduct a radio check.
10. Facilitate the passing of traffic.
11. Troubleshoot radio system, as required.
12. Restore radio system operations, as required.
13. Perform PMCS, as required.

14. Properly store and handle both classified and cryptographic keying material, as required.

REFERENCES: JP 6-0 Joint Communications System

SUPPORT REQUIREMENTS:

ADDITIONAL RANGE/TRAINING AREA:
Event can be trained to standard on any range or training area that allows Marines to occupy in order to transmit in the electromagnetic spectrum at power levels enforced by the Federal Communications Commission (FCC).
In order for the event to be trained to standard there must be a distant end transceiver available to establish a communications link with beyond the radio horizon. This distant end will require all the considerations listed in item 1.
Ordnance
Event does not require ordnance to be trained to standard.
Materials
Learning Aids
Rohde and Schwarz offers free electromagnetic spectrum webinar access to DoD personnel.

EQUIPMENT:
Band appropriate military transceiver
Band appropriate commercial off the shelf transceiver with tuner
Commercial off the shelf power supply for band appropriate transceiver
BNC-M connector (solderless)
BNC-M connector (solder)
N type connector
Solder
Soldering iron (300Watt or higher)
RG-58 coaxial cable
14 AWG solid copper wire
14 AWG stranded copper wire
10 AWG solid copper wire
10 AWG stranded copper wire
CA connector to BNC-F (cobra head)
Multimeter.
Standing wave ratio meter
Antenna analyzer
Multi-tool
Electrical tape
Liquid electrical tape
Antenna balun
Parachute cord
Plastic/porcelain antenna insulators
Compass
Military map of operational area (1:50,000)

UNITS/PERSONNEL:
Higher headquarters spectrum manager
KMI manager and local element custodian
Special Security Officer

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

SUPPLEMENTARY REFERENCES
1. MCRP 3-40.3A Multi-Service Tactics, Techniques, and Procedures for Tactical Radios.
2. CJCSM 6231.04B Manual for Employing Tactical Communications
Chained Events
Prerequisite Events:
2600-COMM-1001, 2600-COMM-1002, 2600-COMM-1003, 2600-COMM-1004, 2600-SCTY-1001, 2600-SCTY-2002
Internal Supported Events:
TEAM-DATA-3001, TEAM-DATA-3002, EWST-EW-4001, LEWT-SIEW-4001, RRT-SIEW-4001, SST-SIEW-4001, OCE-DATA-5001, OCE-DATA-5002, OCE-DATA-5003, OCE-EW-5001, OCE-EW-5002, OCE-INTL-5001, OCE-INTL-5002, OCE-OPS-5001
Internal Supporting Events:
External Supported Events:
INF-ANTI-4001, INF-FP-4001, INF-MAN-4001, INF-MAN-4006, INF-MAN-4012, INF-MAN-4013, INF-MORT-4001, INF-MORT-4002, INF-0317-5001, INF-0317-5002, INF-C2-5002, INF-FP-5001, INF-INT-5001, INF-MAN-5001, INF-MAN-5002, INF-MAN-5006, INF-MAN-5009, INF-MAN-5012, INF-MAN-5013, INF-MAN-5014, INF-MORT-5001, INF-STAB-5002, INF-STAB-5003, INF-STAB-5004 (NAVMC 3500.44D)
RECN-GRND-3002, RECN-SHAP-3026, RECN-AMPH-4008, RECN-C2-4007, RECN-C2-4008, RECN-C2-4009, RECN-COLL-4001, RECN-FP-4001, RECN-GRND-4001, RECN-GRND-4004, RECN-GRND-4007, RECN-GRND-4020, RECN-GRND-4021, RECN-GRND-4028, RECN-INTL-4001, RECN-RAID-4002, RECN-RAID-4003, RECN-RAID-4004, RECN-RAID-4005, RECN-SHAP-4001, RECN-SHAP-4002, RECN-SHAP-4007, RECN-SURV-4001, (NAVMC 3500.55C)
MSOF-C2-4023, MSOF-C2-4024, MSOF-C2-4025, MSOF-C2-4027, MSOF-C2-4028, MSOF-DA-4100, MSOF-DA-4101, MSOF-DA-4102, MSOF-FID-4201, MSOF-FID-4204, MSOF-FID-4205, MSOF-FSPT-4230, MSOF-PE-4400, MSOF-SR-4600, MSOF-SR-4601, MSOF-SR-4602, MSOF-SR-4603, MSOF-SR-4604, MSOF-SR-4605, MSOF-SR-4606, MSOF-SR-4607, MSOF-SR-4608, MSOF-SR-4609, MSOF-SR-4610, MSOF-SR-4611, MSOF-SR-4615, MSOF-SR-4616, MSOF-SR-4618, MSOF-UW-4700, MSOF-UW-4703, MSOF-US-4715, MSOF-IW-4800 (NAVMC 3500.97)
Admin Instructions
Although not the primary reference MCRP 3-40.3A is the best comprehensive reference for the actual planning and establishment of over the horizon tactical communications.
Licensing by band will be required for Marines to operate commercial off the shelf equipment on commercial infrastructure.
Commercial off the shelf RF equipment will need to be purchased to construct antennas and test radio link budget to ensure effective communications can be established, even with the use of military radio systems.
All Marines participating in training must hold the appropriate clearance level depending on the classification of cryptographic keying material used.
KMI local element coordination will have to happen to ensure Marines can appropriately use cryptographic keying material.

SPECIAL PERSONNEL CERTS:
FCC, Technician Class License, as required.
FCC, General Class License, as required.

2600-COMM-2002: Conduct HBSI communications in support of intelligence operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: To receive and send/disseminate TS//SCI level and verbal and data communications on tactical, man-packable, team portable, palletized, Mobile High Bandwidth (HBW) systems; and maintain these systems ISO the MAGTF Commander¿s intelligence cycle. These networks are designed to support TS//SCI level information exchange, collaboration, and resource sharing, via strictly controlled technologies, equipment, methods, and protocols ISO the intelligence cycle. These systems are subject to change due to continuous improvements and upgrades in technology. Also included in this task is national-tactical integration with the U.S. SIGINT Service (USSS). (MCO 3500.26, P 279)

MOS PERFORMING: 2621, 2629, 2631, 2641, 2651

BILLETS: Communications Chief, OCAC Marine, OCE Marine, Radio Reconnaissance Marine, SCI Communications Operator, SIEW Team Leader, SIEW Team Member, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Provided planning documents, mission tasking, satellite communications equipment, authorized satellite access, option file, and cryptographic materials.

STANDARD: To establish a high bandwidth special intelligence communications link in accordance with the communications plan. (MCO 3500.26, P 279-280)

PERFORMANCE STEPS:

1. Conduct mission analysis.
2. Evaluate resources.
3. Ensure accountability of all components.
4. Conduct a site survey.
5. Submit support requests to external agencies as required.
6. Identify safety hazards and personal protective equipment (PPE).
7. Load devices with cryptographic keying material.
8. Establish full-duplex communications with satellite.
9. Conduct network administration from layer three down through the end user device.
10. Ensure that physical network setup meets SCIF requirements
11. Perform Quality of Service assessment.
12. Troubleshoot, as required.
13. Perform PMCS, as required.
14. Properly store and handle both classified and cryptographic keying material, as required.

REFERENCES: MCO 3500.26_ Universal Naval Task List (UNTL)

SUPPORT REQUIREMENTS:

ADDITIONAL RANGE/TRAINING AREA: Event can be trained to standard on any range or training area that allows Marines to occupy in order to transmit in the electromagnetic spectrum at power levels enforced by the Federal Communications Commission (FCC) as well as work in an approved secure space.

EQUIPMENT:

Fielded special communications high bandwidth communications equipment.
Satellite phone.
Spectrum analyzer.
Multimeter.
Multi-tool
Electrical tape
Liquid electrical tape
Parachute cord
Sandbags
Compass
Military map of operational area (1:50,000)

UNITS/PERSONNEL:

Higher headquarters spectrum manager
KMI manager and local element custodian
Special Security Officer

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

SUPPLEMENTARY REFERENCES
1. MCRP 3-40.3A Multi-Service Tactics, Techniques, and Procedures for Tactical Radios.
2. DISAC 310-70-1 Defense Information Systems Agency DISA Circular (DISAC) 310-70-1* (April 21, 2012)
3. MARADMIN 0054/09 INMARSAT Mobile Satellite Services USMC Policy and Procedures (MARADMIN 0054/09-January 28, 2009)
4. MARADMIN 398/14 Marine Corps Centralized Commercial Bandwidth Initiative (MC3B) Description and Procedures (MARADMIN 398/14-August 12, 2014)
5. CJCSM 6231.04B Manual for Employing Tactical Communications
Chained Events
Prerequisite Events:
2600-COMM-1001, 2600-COMM-1004, 2600-SCTY-1001, 2600-SCTY-2002
Internal Supported Events:
TEAM-DATA-3001, TEAM-DATA-3002, EWST-EW-4001, LEWT-SIEW-4001, RRT-SIEW-4001, SST-SIEW-4001, OCE-DATA-5001, OCE-DATA-5002, OCE-DATA-5003, OCE-EW-5001, OCE-EW-5002, OCE-INTL-5001, OCE-INTL-5002, OCE-OPS-5001
Internal Supporting Events:
External Supported Events:
INF-ANTI-4001, INF-FP-4001, INF-MAN-4001, INF-MAN-4006, INF-MAN-4012, INF-MAN-4013, INF-MORT-4001, INF-MORT-4002, INF-0317-5001, INF-0317-5002, INF-C2-5002, INF-FP-5001, INF-INT-5001, INF-MAN-5001, INF-MAN-5002, INF-MAN-5006, INF-MAN-5009, INF-MAN-5012, INF-MAN-5013, INF-MAN-5014, INF-MORT-5001, INF-STAB-5002, INF-STAB-5003, INF-STAB-5004 (NAVMC 3500.44D)
RECN-GRND-3002, RECN-SHAP-3026, RECN-AMPH-4008, RECN-C2-4007, RECN-C2-4008, RECN-C2-4009, RECN-COLL-4001, RECN-FP-4001, RECN-GRND-4001, RECN-GRND-4004, RECN-GRND-4007, RECN-GRND-4020, RECN-GRND-4021, RECN-GRND-4028, RECN-INTL-4001, RECN-RAID-4002, RECN-RAID-4003, RECN-RAID-4004, RECN-RAID-4005, RECN-SHAP-4001, RECN-SHAP-4002, RECN-SHAP-4007, RECN-SURV-4001, (NAVMC 3500.55C)

MSOF-C2-4023, MSOF-C2-4024, MSOF-C2-4025, MSOF-C2-4027, MSOF-C2-4028, MSOF-DA-4100, MSOF-DA-4101, MSOF-DA-4102, MSOF-FID-4201, MSOF-FID-4204, MSOF-FID-4205, MSOF-FSPT-4230, MSOF-PE-4400, MSOF-SR-4600, MSOF-SR-4601, MSOF-SR-4602, MSOF-SR-4603, MSOF-SR-4604, MSOF-SR-4605, MSOF-SR-4606, MSOF-SR-4607, MSOF-SR-4608, MSOF-SR-4609, MSOF-SR-4610, MSOF-SR-4611, MSOF-SR-4615, MSOF-SR-4616, MSOF-SR-4618, MSOF-UW-4700, MSOF-UW-4703, MSOF-US-4715, MSOF-IW-4800 (NAVMC 3500.97)
External Supporting Events:
Admin Instructions
All Marines participating in training must hold the appropriate clearance level depending on the classification of cryptographic keying material used. KMI local element coordination will have to happen to ensure Marines can appropriately use cryptographic keying material.
If keying material reaches specific classification levels coordination through a special security officer will be needed in order to gain approval for a temporary or mobile cleared work space.
This event can not be trained to standard without the use of cryptographic keying material.

2600-EW-2001: Conduct electronic attack

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The task outlines the procedures for a SIGINT/EW Marine to conduct electronic attack on targeted emitters in the EMS. This task will be accomplished by SIGINT/EW Marines assigned to the EWST, SST, RRT, and LAV-EW teams. EA is the subdivision of EW involving the use of EM energy, direct energy, or anti-radiation weapons to attack personnel, facilities, or equipment with the intent of degrading, neutralizing, or destroying enemy combat capability and is considered a form of fires.

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: LCPL, CPL, SGT

INITIAL LEARNING SETTING: MOJT

CONDITION: With the aid of references, given authorities, mission tasking, currently-fielded equipment, threat signal, fire plan, and list of targets.

STANDARD: In order to deny, degrade, or disrupt target signals, within a time limit established by the commander, and in accordance with the references.

PERFORMANCE STEPS:
1. Review fire support coordination plan.
2. Determine re-attack criteria.
3. Apply legal considerations.
4. Execute Spectrum Survey
5. Search for and detect target emitter (Determine Band, Center Freq, and Mod type).

6. ID/Select appropriate asset.
7. Synchronize EA fires.
8. Execute EA fires.
9. Conduct re-attack, as required.

REFERENCES:
1. ISBN 978-0-87259-677-1 The ARRL Handbook for Radio Communications, 2012 Edition
2. JP 3-60 Joint Targeting
3. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
4. MCRP 3-16B The Joint Targeting Process and Procedures for Targeting Time-Critical Targets
5. MCRP 3-32D.1 Electronic Warfare
6. MCRP 8-10B.10 Radio Operator's Handbook
7. MCRP 8-10B.11 Antenna Handbook

2600-EW-2002: Conduct electronic warfare support

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The individual will be able to conduct electronic warfare support to identify and locate threat emitters, and provide Indications and Warning (I&W) to the Marine Air Ground Task Force (MAGTF). This task will be accomplished by SIGINT/EW Marines assigned to the OCAC, EWST, SST, RRT, OCE and LAV-EW teams. ES refers to that division of EW involving actions tasked by, or under direct control of, an operational commander to search for, intercept, identify, and locate or localize sources of intentional and unintentional radiated EM energy for the purpose of immediate threat recognition, targeting, planning and conduct of future operations. ES data can be used to produce signals intelligence, provide targeting for electronic or destructive attack, and produce measurement and signature intelligence (MASINT).

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: LCPL, CPL, SGT

INITIAL LEARNING SETTING: MOJT

CONDITION: With the aid of references, granted authorities, mission tasking, currently-fielded SIGINT/EW equipment, and a target environment

STANDARD: In order to provide I&W to the commander within a time limit established by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Search for signals of interest.
3. Intercept signals of interest.

4. Identify signals of interest.
5. Locate signals of interest in spectrum and geographically.
6. Recognize immediate threat information.
7. Disseminate threat information (SALUTE/SPOTREP).
8. Report identity and location of signals of interest.
9. Forward ES data to SIGINT entities.

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. MCRP 3-32D.1 Electronic Warfare
3. MCRP 8-10B.10 Radio Operator's Handbook
4. MCRP 8-10B.11 Antenna Handbook

2600-EW-2003: Provide EA input into the fire support coordination plan

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Based upon the supported Commander's SOM and an understanding of the information environment (IE), as well as battle space, identify enemy receivers that may be targeted to best support the maneuver elements. Coordinate with Targeting Intelligence Officer (TGTINTELO), Information Operations Officer (IOO), the supported commander's S-3, and EWCC/ICC to prioritize targets and allocate assets that will achieve the desired effect while maintaining a low electromagnetic and acoustic profile. Based upon the feasibility of support and desired effects, the proper asset can be requested and the necessary request/messaging can be sent.

MOS PERFORMING: 2611, 2621, 2629, 2631, 2641, 2651

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: MOJT

CONDITION: Given appropriate EW systems, mission/tasking, and objectives, a higher HQ order, commander's guidance, and priority of fires.

STANDARD: Provide effective and coordinated fires from available assets.

PERFORMANCE STEPS:
1. Review JPTL.
2. Coordinate targets, desired effects, and timing.
3. Coordinate available assets and notify appropriate agencies.
4. Nominate targets to fire plan.
5. Synchronize EA plan with schedule of fires.
6. Calculate minimum power output.
7. Calculate maximum jammer distance.
8. Brief EA fire plan to the FSC.

REFERENCES:
1. MCTP 3-10F Fire Support Coordination in the Ground Combat Element
2. MCWP 3-31 Marine Air-Ground Task Force Fires

3. MSTP 5-0.2 Operational Planning Team Leaders Guide
4. MSTP PAM 3-0.3 MAGTF Fires Reference Guide

2600-EW-2004: Conduct dynamic EW targeting

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: Dynamic/Reactive engagement of emerging targets (which fall outside the normal planning cycle) with non-lethal fires IAW the MAGTF Commander's priorities.

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: LCPL, CPL, SGT

INITIAL LEARNING SETTING: MOJT

CONDITION: Given operational EW equipment, commander's guidance, and EW tasking.

STANDARD: Provide desired effect in accordance with the fire support plan.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Apply legal considerations.
3. Select equipment.
4. Execute spectrum survey.
5. Search for / detect threat signals (Determine Band, Center Freq, and Mod type).
6. Identify kill chain communications.
7. Select appropriate asset.
8. Perform deconfliction and integration.
9. Execute EA Fires.
10. Assess re-attack requirement.
11. Make re-attack recommendation.

REFERENCES:
1. MCWP 3-31 Marine Air-Ground Task Force Fires
2. MSTP PAM 3-0.3 MAGTF Fires Reference Guide

2600-INTL-2001: Conduct computer network exploitation (CNE)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

MOS PERFORMING: 2611, 2621, 2629, 2631, 2651, 2691

BILLETS: CNE Operator

GRADES: LCPL, CPL, SGT, SSGT, GYSGT, MSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given authorities, with the aid of references, appropriate certifications, given mission tasking, currently-fielded equipment, a target environment, and a spectrum survey

STANDARD: To exploit a signal of interest within time limits and constraints established by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Apply legal considerations.
3. Apply technical considerations.
4. Identify operational constraints.
5. Identify environmental constraints.
6. Deconflict operations.
7. Employ equipment.
8. Conduct post-mission analysis.
9. Disseminate mission results.

REFERENCES:
1. Document 5a. NSCID No. 6 Signals Intelligence
2. DoDD O-3600.3 Technical Assurance Standards for computer Network Attack (CNA)
3. DODI S-5240.mm Counterintelligence In Cyberspace
4. EO 12333 U.S. Intelligence Activities (As Amended)
5. JP 2-01 Joint and National Intelligence Support to Military Operations
6. JP 3-12 Cyberspace Operations
7. JP 3-13 Information Operations
8. MCDP 2 Intelligence
9. MCRP 2-10A.1 Signals Intelligence
10. MOA DOD/IC Memorandum Of Agreement Between the DOD and IC regarding CAN/CNE Activities, 2 Apr 2004
11. NSA/CSS Policy 1-58 NSA/CSS Policy 1-58
12. SIGINT FOC Marine Corps SIGINT Future Operating Concept 2009-2015, 15 Jan 2009
13. USSID DA3655 Computer Network Exploitation
14. USSID DA3857 USSID DA3857
15. USSID SG5000 USSID SG5000

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

2600-INTL-2002: Conduct intelligence briefings

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The SIGINT/EW Marine must be able to effectively relay information to varying audiences. The SIGINT/EW Marine will have to take into account the media, audience, classification, and objective of the briefing in order to achieve mutual understanding of the information or intelligence being presented. These briefs will be conducted by SIGINT/EW Marines in varying work roles. SST/RRT/LAV-EW/EWST team leaders may have to conduct confirmation briefs with their commanders. They may also have to informally brief supported command leadership on employment considerations. OCAC and OCE analysts may have to brief daily SIGINT summaries, target packages, and SIGINT/EW activity updates.

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651, 2691

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

INITIAL LEARNING SETTING: MOJT

CONDITION: With the aid of references, given mission tasking, and briefing materials

STANDARD: To convey the information within a time limit established by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Gather information resources.
3. Analyze data.
4. Prepare brief.
5. Deliver brief.
6. Field questions.

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. MCTP 2-10B MAGTF Intelligence Production and Analysis
3. MCWP 2-10 Intelligence Operations

2600-INTL-2003: Conduct Basic SIGINT analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Tactical teams and analyst Marines will evaluate multiple SIGINT sources of collected parametric information, other reporting, and intelligence products in order to answer information requirements. Domains pertaining to this event include air, land, maritime, and space. (MCRP 2-10A.1 Signals Intelligence, P. 1-1)

MOS PERFORMING: 2621, 2629, 2631, 2641, 2651

BILLETS: Communications Chief, OCAC Marine, OCE Marine, SIEW Technician, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given a mission and authorities, collected data, intelligence information, database access with necessary certifications, and currently-fielded equipment.

STANDARD: Retrieve SIGINT data, analyze and correlate data to satisfy information requirements. In accordance with governing USSIDs. (USSID 212)

PERFORMANCE STEPS:

1. Review mission tasking.
2. Apply legal considerations.
3. Compile collected data/information.
4. Identify relevant information.
5. Conduct network analysis.
6. Correlate collected SIGINT with collateral data.

REFERENCES: MCRP 2-10A.1 Signals Intelligence

SUPPORT REQUIREMENTS:

EQUIPMENT: Resources: data visualization software ie (Excel, Access, Agency database etc.) VM/closed loop train net

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

SUPPLEMENTARY REFERENCE:
ATP 2-91.9 Intelligence operations in a CEMA environment
ATP 3-12.3 Electronic Warfare Techniques
EO 12333 U.S. Intelligence Activities (As Amended)
FM 3-12 Cyberspace and Electronic Warfare Operations
JP 3-60 Joint Targeting
MCRP 3-16A Tactics, Techniques, and Procedures for the Targeting Process
MCRP 3-32D.1 Electronic Warfare
MCTP 3-02A MAGTF Network Engagement Activities
USSID 109
(U//FOUO) USSID 220 SIGINT Dissemination: Tactical Electronic Intelligence (ELINT) Reporting
(U//FOUO) USSID 304 SIGINT in Support of Information Operations
(U//FOUO) USSID 212 Time-Sensitive SIGINT Reporting Procedures via KLIGLIGHT/Tactical Reports
Chained Events
Prerequisite Events:
2600-ANYS-1001: Conduct basic analysis

2600-INTL-2004: Produce time sensitive SIGINT reports

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The SIGINT Analyst will produce time sensitive SIGINT reports to satisfy intelligence requirements ensuring reporting time limits are met as required. Domains pertaining to this event include air, land, maritime, space, and cyberspace. The SIGINT-derived tactical reporting (TR) is the principal reporting vehicle used by the USSS to keep the NSA/CSS, tactical commanders, and national, theater, local, and tactical-level non-SIGINT organizations advised of the status of continuing or potential threats, and other events of high interest. It is a concise report, which is structured for both readability and machine handling. Normally, the reported events support tactical warning, targeting, Indications and Warning (I&W), and maneuvering. (USSID 212)

MOS PERFORMING: 2621, 2629, 2631, 2641, 2651

BILLETS: Communications Chief, OCAC Marine, OCE Marine, SIEW Technician, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given a mission and authorities, collected data, intelligence information, database access with necessary certifications, and currently-fielded equipment.

STANDARD: Draft time sensitive reports to meet intelligence requirements in accordance with governing USSIDs and directives (USSID 212)

PERFORMANCE STEPS:

1. Validate time sensitive reporting criteria.
2. Apply legal considerations.
3. Compile collected data/information.
4. Analyze information.
5. Determine reporting mechanism.
6. Draft time sensitive SIGINT reports.
7. Submit for review.

REFERENCES: USSID 212 (U//FOUO) Time-Sensitive SIGINT Reporting Procedures via KLIGLIGHT/Tactical Reports

SUPPORT REQUIREMENTS:

EQUIPMENT: Computer with access to respective reporting dissemination tools.

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
SUPPLEMENTARY REFERENCES:
(U//FOUO) USSID 204 SIGINT Dissemination
(U//FOUO) USSID 213 Reporting of Distress Signals
(U//FOUO) USSID 214 Non-Codeword Reporting Program
Prerequisite Events:
2600-ANYS-1001: Conduct basic analysis
2600-INTL-2001: Conduct Basic SIGINT analysis

2600-INTL-2005: Access intelligence repositories

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The individual will access and utilize intelligence repositories. Additionally, the individual will archive, retrieve, and compile appropriate data. Domains pertaining to this event include air, land, maritime, space, and cyberspace for the purpose of answering information needs relevant to a given Area of Interest. Organizations and personnel that are assigned any SIGINT enabling, production, or oversight missions by DIRNSA/CHCSS or the SIGINT Director, and that are performing or managing association SIGINT enabling, production, or oversight activities, including researching, developing, collecting, processing, analyzing, and reporting, are considered part of a SIGINT Production Chain and are eligible for access to USSS raw SIGINT and SIGINT databases, as needed to support assigned SIGINT missions and tasks. (USSID 6).

MOS PERFORMING: 2621, 2629, 2631, 2641, 2651

BILLETS: Communications Chief, OCAC Marine, OCE Marine, SIEW Technician, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given a confirmed SIGINT mission and valid mission correlation table (MCT), an approved dissemination plan, an established and approved oversight mechanism that ensures proper handling of information, a documented intelligence oversight reporting process, database access with necessary certifications, and currently-fielded equipment.

STANDARD: Retrieve and query SIGINT information for aggregation into serialized intelligence products. (USSID 6)

PERFORMANCE STEPS:
1. Review mission tasking.
2. Apply legal considerations.
3. Formulate query.
4. Compile applicable data.

5. Maintain organic databases.

REFERENCES: USSID 6 (U//FOUO) SIGINT Production and Raw SIGINT Access

SUPPORT REQUIREMENTS:

EQUIPMENT: Computer with NSANET access.

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
SUPPLEMENTARY REFERENCES:
DoDI 3305.09 DoD Cryptologic Training
ISBN: 978-0979387395 Newton's Telecom Dictionary: Telecommunications, Networking, Information Technologies, The Internet, Wired, Wireless, Satellites and Fiber
TM 12985A/10648E-14/3A Analysis Center Technical Manual
NSA/CSS Policy 1-58
SID Management Directive 421
Prerequisite Events:
2600-ANYS-1001: Conduct basic analysis
Internal Supporting Events:
2600-INTL-2001: Conduct Basic SIGINT analysis
2600-INTL-2002: Produce SIGINT

2600-INTL-2006: Conduct network analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Network analysis can be described as an evaluation, gathering, and interpretation of data to resolve the presence of associations and relationships among individuals, groups, or other entities. It also includes the context and meaning of the relationships between people to identify the ways in which those associations can be strengthened or weakened. Operational environments will always contain interrelated friendly, neutral, and threat networks that will affect the mission. Analysis of these networks assists the commander in determining which key nodes/actors should be engaged as part of the targeting process. As a part of the targeting process, confirming the identification of a node/actor will be required and is supported by identity operations (MCTP 3-02A).

MOS PERFORMING: 2621, 2629, 2631, 2641, 2651

BILLETS: Communications Chief, OCAC Marine, OCE Marine, SIEW Technician, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, collected data, access to databases with necessary certifications, and currently-fielded analysis and reporting system.

STANDARD: Determine target network structure and organization of target networks in accordance with governing USSIDs, directives, and their timelines. (MCTP 3-02A)

PERFORMANCE STEPS:
1. Review mission tasking.
2. Query repositories.
3. Process national/ theater level data.
4. Analyze collection and intelligence.
5. Perform metadata analysis.
6. Identify network infrastructure(s).
7. Identify critical nodes.
8. Assist in the development of SIGINT products.

REFERENCES: MCTP 3-02A MAGTF Network Engagement Activities

CHAINED EVENTS:

PREREQUISITE EVENTS: 2600-ANYS-1001

SUPPORT REQUIREMENTS:

EQUIPMENT: Computer with NSANET access and data visualization/manipulation software ie (Excel, Access, Agency database etc.)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
SUPPLEMENTARY REFERENCES:
AFTTP 3-1 Air Force Tactics Techniques and Procedures
MCRP 3-32D.1 Electronic Warfare
MCTP 2-10B MAGTF Intelligence Production and Analysis
CJCSI 3370.01C Target Development Standards
JP 3-25 Countering Threat Networks
SECNAVINST 5510.34_ Disclosure of Classified Military Information and Controlled Unclassified Information to Foreign Governments, International Organizations, and Foreign Representatives
NSA/CSS Policy 1-58
USSID 201 Serialized SIGINT Product
(U//FOUO) USSID 212 Time-Sensitive SIGINT Reporting Procedures via KLIGLIGHT/Tactical Reports
(U//FOUO) USSID 104 Computer Network Exploitation Data Acquisition Operations and Activities
USSID 105
(U//FOUO) USSID 304 SIGINT in Support of Information Operations
USSID 109
Chained Events
Prerequisite Events:
2600-ANYS-1001: Conduct basic analysis
Internal Supporting Events:
2600-INTL-2003: Conduct basic SIGINT analysis
2600-INTL-2004: Produce SIGINT reports

2600-INTL-2005: Access intelligence repositories
2600-INTL-2006: Conduct network analysis
2600-INTL-2007: Analyze data retrieved from the Integrated Broadcast Service

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2600-INTL-2007: Analyze data retrieved from the Integrated Broadcast Service

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: For several years MAGTFs have possessed intelligence broadcast receivers capable of accessing select SIGINT broadcasts. The broadcast receivers currently being fielded and under development will allow MAGTFs to receive multiple channels of JTF, fleet, theater, and national intelligence broadcast data. This data includes all-source intelligence and SIGINT on enemy operations as well as friendly positional and other information. (MCRP 2-10A.1, P. 6-2)

MOS PERFORMING: 2621, 2629, 2631, 2641, 2651

BILLETS: Communications Chief, OCAC Marine, OCE Marine, SIEW Technician, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given mission tasking, Information Requirements, currently-fielded analysis and reporting system, references, and a Common Interactive Broadcast receiver.

STANDARD: Connect IBS services to provide information to currently fielded equipment for processing. (TCAC TM 12401B-14/1)

PERFORMANCE STEPS:

1. Review mission tasking.
2. Set up Common Interactive Broadcast receiver.
3. Apply appropriate filters.
4. Conduct data query.
5. Identify comm externals notation (CENOT) data.
6. Display information.
7. Identify comm externals notation (CENOT) data
8. Display information.
9. Correlate data with known emitters.
10. Submit requests for information.

11. Report information.

REFERENCES: TCAC Operators Guide TCAC Operators Guide

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
SUPPLEMENTARY REFERENCES:
1. Integrated Broadcast User Guide (IBUG)
2. MCRP 2-10A.1
Chained Events
Prerequisite Events:
2600-ANYS-1001: Conduct basic analysis
Internal Supported Events:
OCE-INTL-5001: Conduct SIGINT command and control
OCE-INTL-5002: Conduct signals intelligence operations
Internal Supporting Events:
2631-OPEL-1002: Access Combined Integrated Broadcast (CIB)

2600-PLAN-2001: Plan team operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: This tasks outlines the steps required of a team leader to plan team operations. This task applies to SST, RRT, LAV-EW Team, EWST, EWRT, and OCE team leaders. Team leaders normally are NCOs.

There is an art and science to conducting tactical level planning. Planning is a problem solving model that is an essential part of command and control. The outcome of planning is an order/plan to direct actions and focus subordinate activities toward accomplishing the mission. Planning also provides the context for tactical decision making.

Planning considerations may include: T/O, EDL, mission preparation, insertion methods, infiltration routes, release point locations, actions on the objective, exfiltration routes, actions on compromise, emergency plan of action, evasion routes, incorporation into the supported units SOM, meeting the collection requirements, and extraction methods.

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: CPL, SGT

INITIAL LEARNING SETTING: MOJT

CONDITION: Given a mission, a team, required equipment, and an operations order.

STANDARD: Create a plan which ensures effective employment of the SI/EW team in support of mission requirements, within a timeline established by the commander.

PERFORMANCE STEPS:

1. Conduct mission analysis.
2. Coordinate with supported unit for initial planning considerations.
3. Submit requests for intelligence support products.
4. Issue the warning order.
5. Coordinate logistics requirements
6. Supervise communications planning.
7. Build team collection plan.
8. Supervise route planning.
9. Coordinate linkup procedures.
10. Maintain the team EDL.
11. Conduct rehearsal.
12. Issue the order.
13. Supervise PCC.
14. Conduct PCI.
15. Prepare for combat.

REFERENCES:

1. MCDP-1 Warfighting
2. MCRP 2-10A.1 Signals Intelligence
3. MCTP 2-10B MAGTF Intelligence Production and Analysis
4. MCWP 2-10 Intelligence Operations
5. MCWP 5-10 Marine Corps Planning Process

2600-PLAN-2002: Establish a tactical SIGINT/EW operations site

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Any of the frequency ranges and power levels in use by the world's military and paramilitary forces require line-of-sight (LOS) or near-LOS from transmitter to receiver. Generally, the higher the frequency used, the greater the LOS influence and the more critical the accurate placement of SIGINT collection and DF equipment. Lower frequencies (particularly those below 30 MHz) generally do not require LOS paths. Consequently, the placement of SIGINT collection and DF sites to exploit these frequencies may be located at greater distances from the target transmitters. The power output of a transmitter is an important factor in receiving the signal. To intercept some low-powered signals, SIGINT collection and DF assets must be located closer to the adversary's transmitter, often requiring SIGINT collection and DF teams to either collocate with or closely follow forward combat units. (MCRP 2-10A.1, Pg 7-3)

MOS PERFORMING: 2621, 2629, 2631, 2641, 2651

BILLETS: Radio Reconnaissance Marine, SCI Communications Operator, SIEW Team Leader, SIEW Team Member, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given references, an operations mission, a combat load, and currently fielded Marines Corps Signals Intelligence/Electronic Warfare equipment and required personnel.

STANDARD: Given references, an operations mission, a combat load, and currently fielded Marines Corps Signals Intelligence/Electronic Warfare equipment and required personnel.

PERFORMANCE STEPS:
1. Identify mission requirements.
2. Select equipment.
3. Identify force protection limitations.
4. Verify physical infrastructure requirements (as required).
5. Draw a layout of the site.
6. Brief team members on the execution of the plan
7. Conduct movement to site.
8. Implement force protections measures.
9. Establish communications.
10. Conduct RF site survey.
11. Execute collections plan.

REFERENCES: MCRP 2-10A.1 Signals Intelligence

SUPPORT REQUIREMENTS:

ADDITIONAL RANGE/TRAINING AREA: Event can be trained to standard on any range or training area that allows Marines to occupy in order to transmit in the electromagnetic spectrum at power levels enforced by the Federal Communications Commission (FCC).

EQUIPMENT:
Currently fielded tactical communications systems.
Currently fielded SIGINT/EW equipment.
Individual field gear.

Band appropriate military transceiver
Band appropriate commercial off the shelf transceiver with tuner
Commercial off the shelf power supply for band appropriate transceiver
BNC-M connector (solderless)
BNC-M connector (solder)
N type connector
Solder
Soldering iron (300Watt or higher)
RG-58 coaxial cable
14 AWG solid copper wire
14 AWG stranded copper wire
10 AWG solid copper wire
10 AWG stranded copper wire
CA connector to BNC-F (cobra head)
Multimeter.
Standing wave ratio meter
Antenna analyzer
Multi-tool
Electrical tape
Liquid electrical tape
Antenna balun
Parachute cord
Plastic/porcelain antenna insulators
Compass
Military map of operational area (1:50,000

UNITS/PERSONNEL:
Higher headquarters spectrum manager
KMI manager and local element custodian
Special Security Officer

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
SUPPLEMENTARY REFERENCES
Chained Events
Prerequisite Events:
2600-COMM-1001, 2600-COMM-1002, 2600-COMM-1003, 2600-COMM-1004, 2600-EW-1001, 2600-EW-1003
Internal Supported Events:
TEAM-DATA-3001, TEAM-DATA-3002, EWST-EW-4001, LEWT-SIEW-4001, RRT-SIEW-4001, SST-SIEW-4001, OCE-DATA-5001, OCE-DATA-5002, OCE-DATA-5003, OCE-EW-5001, OCE-EW-5002, OCE-INTL-5001, OCE-INTL-5002, OCE-OPS-5001
Internal Supporting Events:
2600-COLL-2001, 2600-COLL-2002, 2600-COMM-2001, 2600-COMM-2002, 2600-EW-2001, 2600-EW-2002, 2600-EW-2004, 2600-PLAN-2001, 2600-SCTY-1001, 2600-SCTY-2002
External Supported Events:
INF-ANTI-4001, INF-FP-4001, INF-MAN-4001, INF-MAN-4006, INF-MAN-4012, INF-MAN-4013, INF-MORT-4001, INF-MORT-4002, INF-0317-5001, INF-0317-5002, INF-C2-5002, INF-FP-5001, INF-INT-5001, INF-MAN-5001, INF-MAN-5002, INF-MAN-5006, INF-MAN-5009, INF-MAN-5012, INF-MAN-5013, INF-MAN-5014, INF-MORT-5001, INF-STAB-5002, INF-STAB-5003, INF-STAB-5004 (NAVMC 3500.44D)

RECN-GRND-3002, RECN-SHAP-3026, RECN-AMPH-4008, RECN-C2-4007, RECN-C2-4008, RECN-C2-4009, RECN-COLL-4001, RECN-FP-4001, RECN-GRND-4001, RECN-GRND-4004, RECN-GRND-4007, RECN-GRND-4020, RECN-GRND-4021, RECN-GRND-4028, RECN-INTL-4001, RECN-RAID-4002, RECN-RAID-4003, RECN-RAID-4004, RECN-RAID-4005, RECN-SHAP-4001, RECN-SHAP-4002, RECN-SHAP-4007, RECN-SURV-4001, (NAVMC 3500.55C) MSOF-C2-4023, MSOF-C2-4024, MSOF-C2-4025, MSOF-C2-4027, MSOF-C2-4028, MSOF-DA-4100, MSOF-DA-4101, MSOF-DA-4102, MSOF-FID-4201, MSOF-FID-4204, MSOF-FID-4205, MSOF-FSPT-4230, MSOF-PE-4400, MSOF-SR-4600, MSOF-SR-4601, MSOF-SR-4602, MSOF-SR-4603, MSOF-SR-4604, MSOF-SR-4605, MSOF-SR-4606, MSOF-SR-4607, MSOF-SR-4608, MSOF-SR-4609, MSOF-SR-4610, MSOF-SR-4611, MSOF-SR-4615, MSOF-SR-4616, MSOF-SR-4618, MSOF-UW-4700, MSOF-UW-4703, MSOF-US-4715, MSOF-IW-4800 (NAVMC 3500.97)
External Supporting Events:
SUPPORT REQUIREMENTS:
Learning Aids
Rohde and Schwarz offers free electromagnetic spectrum webinar access to DoD personnel.
MOS roadmap.
MISCELLANEOUS:
Admin Instructions
In order for the event to be trained to standard there must be a distant end transceiver available to establish a communications link with beyond the radio horizon. This distant end will require all the considerations listed in item 1.
In order for the event to be trained to standard there must be a SOI in the mission in order for the site to be evaluated for collections suitability.

2600-PROC-2001: Prepare collection reports for follow on analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: During collection, organic, attached, and supporting SIGINT elements collect and deliver information to the appropriate processing or production element. When SOIs are acquired that are readily exploitable, SIGINT collection operators prepare a gist of the transmission. Recording of the entire intercepted signal using audio recorders may also occur. (MCRP 2-10A.1, P. 7-6)

MOS PERFORMING: 2621, 2629, 2631, 2641, 2651

BILLETS: Communications Chief, OCAC Marine, OCE Marine, SCI Communications Operator, SIEW Technician, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given IRs, exploited raw traffic data, and currently fielded tactical collection equipment.

STANDARD: Evaluate readily exploitable signals using intelligence requirements and prepare for follow on analytic processing via collection reporting.(MCRP 2-10A.1, Pp. 1-7, 7-6)

PERFORMANCE STEPS:
1. Evaluate isolated internals from collected raw target signals using IR mission tasking.
2. Determine report formatting based on target signal type.
3. Prepare collection report for follow on analytic processing.
4. Send prepared report to higher echelon SIGINT processing.

REFERENCES: MCRP 2-10A.1 Signals Intelligence

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
SUPPLEMENTARY REFERENCES:
1. USSID 300 NSA/CSS Cryptologic Functional Support Planning for Military Operations
2. NSA/CSS Policy 11-9 NSA/CSS Support to Electronic Warfare and Joint Electromagnetic Spectrum Operations
3. USSID 6 USSID 6
4. USSID 212 USSID 212
5. USSID 217 USSID 217
6. USSID 219 USSID 219
7. USSID 206 SIGINT Dissemination for Analytic Collaboration
Chained Events
Prerequisite Events:
2600-ANYS-1001
2600-PLAN-2001
Internal Supported Events:
OCE-INTL-5002
OCE-EW-5002

2600-SCTY-2001: Develop an emergency action plan (EAP)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Each accredited SCIF or secure area must establish an Emergency Action Plan (EAP) to be approved by the SSO.

MOS PERFORMING: 2611, 2621, 2629, 2631, 2641, 2651, 2691

BILLETS: Assistant Team Leader, SSO, SSR, Team Leader

GRADES: CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

INITIAL LEARNING SETTING: MOJT

CONDITION: With the aid references, a secure working environment, and appropriate material

STANDARD: To establish an EAP in accordance with the references.

PERFORMANCE STEPS:
1. Identify critical items.
2. Identify EAP criteria.
3. Develop emergency destruction plan.
4. Create sequence of events.
5. Identify team member responsibilities/duties during EAP execution.
6. Submit to proper authorities for approval.

REFERENCES:
1. DoDM 5105.21 Vol 1 Sensitive Compartmented Information (SCI) Administrative and Security Manual: Administration of Information and Information Systems Security
2. DoDM 5105.21 Vol 2 Sensitive Compartmented Information (SCI) Administrative and Security Manual: Administration of Information and Information Systems Security
3. DoDM 5105.21 Vol 3 Sensitive Compartmented Information (SCI) Administrative and Security Manual: Administration of Information and Information Systems Security
4. ICD 705 Sensitive Compartmented Information Facilities
5. ICD 705 Technical Specifications Version 1.4
6. ICPG 705.1 Physical and Technical Standards for Sensitive Compartmented Information Facilities
7. ICPG 705.2 Standards for the Accreditation and Reciprocal Use of Sensitive Compartmented Information Facilities
8. SECNAV M-5510.30 Department of the Navy Personnel Security Program

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2600-SCTY-2002: Execute emergency action plan (EAP)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: Individual will execute roles within the EAP, IOT safeguard classified information.

MOS PERFORMING: 2602, 2611, 2621, 2629, 2631, 2641, 2651, 2659, 2691

GRADES: LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT, WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL LEARNING SETTING: MOJT

CONDITION: On order, given an emergency action plan and equipment.

STANDARD: Prevent the loss or compromise of classified information and equipment.

PERFORMANCE STEPS:

1. Enhance security posture (stand-to).
2. Communicate threat to higher.
3. Consolidate cryptographic material.
4. Consolidate SCI material.
5. Consolidate collateral classified material.
6. Initiate the EDP.
7. Report EDP completion to higher.
8. Conduct movement IAW EAP.

REFERENCES:
1. DoDM 5105.21 Vol 1 Sensitive Compartmented Information (SCI) Administrative and Security Manual: Administration of Information and Information Systems Security
2. DoDM 5105.21 Vol 2 Sensitive Compartmented Information (SCI) Administrative and Security Manual: Administration of Information and Information Systems Security
3. DoDM 5105.21 Vol 3 Sensitive Compartmented Information (SCI) Administrative and Security Manual: Administration of Information and Information Systems Security
4. SECNAVINST 5510.36B Department of the Navy Information Security Program

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2600-SIEW-2001: Conduct power usage assessment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: This task outlines the steps a team leader or assistant team leader will take in determining their power requirements prior to conducting a SIGINT/EW operation. Successful completion of this task will ensure the team has the requisite power to conduct SIGINT/EW operations for the entire duration of their mission. This will require an understanding of basic electricity, power usage rates, battery capacities, and fuel use rates.

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

GRADES: LCPL, CPL, SGT

INITIAL LEARNING SETTING: MOJT

CONDITION: With the aid of reference, given mission tasking, and working in a fixed or mobile site and available power generation and/or batteries.

STANDARD: Determine utility requirements to ensure continuity of operations.

PERFORMANCE STEPS:
1. Identify operating environment.
2. Differentiate between ohms/volts/amps.
3. Calculate usage in amps and watts.
4. Establish power usage threshold (high/low).
5. Characterize available power sources (shore power, house power, etc.).
6. Identify battery requirements.
7. Identify power generation requirements.

8. Identify fuel requirements for power generation.
9. Establish disaster recovery plan.
10. Determine grounding requirements.

REFERENCES:
1. MCRP 3-17.7K Theater of Operations Electrical Systems
2. TB 385-4 Safety Requirements for Maintenance of Electrical and Electronic Equipment
3. TM 2000-15/4 Power System Reference Manual
4. USSID 1 SIGINT Operating Policy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

2600-SIEW-2002: Conduct precision geolocation

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: This task outlines the duties of a precision geolocation operator. This task will be accomplished by Marines in the SIGINT production chain on the SST, RRT, and LAV-EW teams as this is a SIGINT function. Precision geolocation operations center around the Marine's ability to use specialized equipment to locate emitters across the battlefield.

These operations can be conducted on airborne, shipborne, or ground-based mobile platforms. PGL also includes foot mobile homing operations. PGL operators will often coordinate with airborne and ground-based platforms in the execution of PGL operations.

PGL operators will be required to learn multiple telecommunications technology theories and access schemes. The periods of instruction and certification authority resides with a national intelligence agency. All training and certifications must occur at an approved training site and by certified instructors.

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

BILLETS: PGL Operator

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: MOJT

CONDITION: With the aid of reference, given mission tasking, authorities, currently-fielded equipment, a target environment, and a spectrum survey.

STANDARD: Locate a signal of interest within time limits and constraints/restraints established by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.

2. Identify collaborative platforms.
3. Apply legal considerations.
4. Apply technical considerations.
5. Identify operational constraints.
6. Identify environmental constraints.
7. Deconflict operations.
8. Employ equipment.
9. Conduct post-mission analysis.
10. Disseminate mission results.

REFERENCES:
1. ISBN 978-0979387340 Newton's Telecom Dictionary: Telecommunications, Networking, Information Technologies, The Internet, Wired, Wireless, Satellites and Fiber
2. MCRP 8-10B.10 Radio Operator's Handbook
3. MCRP 8-10B.11 Antenna Handbook
4. USSID DA3857 USSID DA3857

SUPPORT REQUIREMENTS:

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: OTT PGL Certificate

2600-SIEW-2003: Collect signals in the electromagnetic spectrum

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The operator will characterize the spectrum, identify signals of interest, and associate various signal characteristics to successfully exploit RF emitters. (MCRP 2-10A.1, Pg. 10)

MOS PERFORMING: 2611, 2621, 2631, 2641, 2651

BILLETS: Communications Chief, OCAC Marine, OCE Marine, Radio Reconnaissance Marine, SCI Communications Operator, SIEW Team Leader, SIEW Team Member, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, currently-fielded SIGINT/EW equipment, and an appropriate signal environment

STANDARD: Identify signals of interest for further exploitation and development. (MCRP 2-10A.1, Pg. 10, 11)

PERFORMANCE STEPS:
1. Review mission tasking.
2. Apply legal considerations.

3. Select equipment.
4. Execute spectrum survey.
5. Determine center frequency.
6. Determine bandwidth.
7. Determine modulation.
8. Determine transmission modes.
9. ID usage of encryption.
10. Determine amplitude.
11. Determine Received Signal Strength.
12. Identify the signals' function.
13. Compare signal to existing targets.
14. Compare un-identified signal to known signal list.
15. Record signal of interest.

REFERENCES: MCRP 2-10A.1 Signals Intelligence

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
SUPPLEMENTARY REFERENCES:
1. EA-100 Basic SIGINT Technology
2. EA-269 Signals Search and Analysis Training Course
3. EO 12333 U.S. Intelligence Activities (As Amended)
4. ISBN 978-0979387340 Newton's Telecom Dictionary: Telecommunications, Networking, Information Technologies, The Internet, Wired, Wireless, Satellites and Fiber
5. MCRP 8-10B.10 Radio Operator's Handbook (deleted)
6. MCRP 8-10B.11 Antenna Handbook (deleted)
7. No Pub ID NSGT Series Radio Wave Modulation and Signal Multiplexing
8. USSID 103 Specific Emitter Identification
9. USSID 304 Signals Intelligence In Support Of Information Operations
10. USSID 105

Chained Events:
Prerequisite Events:
2600-COMM-1003: Employ antennas
Internal Supported Events:
2600-SIEW-1002: Locate an emitter
OCAC-EW-6002: Conduct EW operations
OCAC-INTL-6003: Support targeting
OCE-INTL-5002: Conduct signals intelligence operations
OCAC-INTL-6002: Conduct SIGINT operations
OCE-OPS-5001: Support Targeting
Internal Supporting Events:
2600-COMM-1002: Construct a field expedient antenna (FEA)

2600-SIEW-2004: Locate an emitter

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: SIGINT involves searching for, intercepting, identifying, and locating electronic emitters. Radio DF uses equipment to obtain the locations of adversary emitters by determining the direction of arrival or the time difference of arrival of the radio waves. (MCRP 2-10A.1, Pg. 1-2, 7-6)

MOS PERFORMING: 2611, 2621, 2629, 2631, 2641, 2651

BILLETS: Communications Chief, OCAC Marine, OCE Marine, Radio Reconnaissance Marine, SCI Communications Operator, SIEW Team Leader, SIEW Team Member, Special Operations Capability Specialist

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, commander's guidance, unit SOP, currently-fielded SIGINT/EW equipment, an appropriate signals environment, and a SOI.

STANDARD: Survey spectrum, detect and locate SOI using currently fielded equipment. Calculate target locations using line of bearing, cut, or fix, depending on equipment being used. (ATP 3-12.3, P.5-1)

PERFORMANCE STEPS:

1. Review mission tasking.
2. Select equipment.
3. Survey for new emitter.
4. Determine azimuth of emitter.
5. Correlate DF LOBs.
6. Report emitter locations.

REFERENCES: ATP 3-12.3 Electronic Warfare Techniques

SUPPORT REQUIREMENTS:

ADDITIONAL RANGE/TRAINING AREA: Event can be trained to standard on any range or training area that allows Marines to occupy in order to transmit in the electromagnetic spectrum at power levels enforced by the Federal Communications Commission (FCC).

EQUIPMENT:

Currently fielded radio direction finding equipment or appropriate receiver
BNC-M connector (solderless)
BNC-M connector (solder)
Solder
Soldering iron (300Watt or higher)
RG-58 coaxial cable
14 AWG solid copper wire
14 AWG stranded copper wire
10 AWG solid copper wire
10 AWG stranded copper wire
CA connector to BNC-F (cobra head)
Multimeter.
Standing wave ratio meter
Antenna analyzer
Multi-tool
Electrical tape

Liquid electrical tape
Parachute cord
Compass
Military map of operational area (1:50,000)
1/2" PVC pipe
1/2" PVC pipe elbow connectors
1/2" PVC pipe T connectors
1/2" PVC pipe barrel connectors
PVC pipe cutting tool

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

PRIMARY REFERENCE:
1. ATP 3-12.3 Electronic Warfare Techniques
SUPPLEMENTARY REFERENCES:
3. EO 12333 U.S. Intelligence Activities (As Amended)
4. ISBN 978-0-87259-694-8 ARRL Antenna Book, 22nd Edition
5. ISBN 978-0979387340 Newton's Telecom Dictionary: Telecommunications, Networking, Information Technologies, The Internet, Wired, Wireless, Satellites and Fiber
6. MCRP 8-10B.10 Radio Operator's Handbook (Deleted?)
7. MCRP 8-10B.11 Antenna Handbook (Deleted?)
8. No Pub ID NSGT Series Radio Wave Modulation and Signal Multiplexing
9. No Pub ID RASIN Manual
10. NSA/CSS Policy 1-58
11. USSID DA3655 Computer Network Exploitation
12. USSID SG5000
13. USSID DA3491
14. MCRP 2-10A.1 Signals Intelligence
Chained Events
Prerequisite Events:
2600-COMM-1002, 2600-COMM-1003, 2600-EW-1001
Internal Supported Events:
TEAM-DATA-3001, TEAM-DATA-3002, EWST-EW-4001, LEWT-SIEW-4001, RRT-SIEW-4001, SST-SIEW-4001, OCE-DATA-5001, OCE-DATA-5002, OCE-DATA-5003, OCE-EW-5001, OCE-EW-5002, OCE-INTL-5001, OCE-INTL-5002, OCE-OPS-5001
Internal Supporting Events:
External Supported Events:
INF-ANTI-4001, INF-FP-4001, INF-MAN-4001, INF-MAN-4006, INF-MAN-4012, INF-MAN-4013, INF-MORT-4001, INF-MORT-4002, INF-0317-5001, INF-0317-5002, INF-C2-5002, INF-FP-5001, INF-INT-5001, INF-MAN-5001, INF-MAN-5002, INF-MAN-5006, INF-MAN-5009, INF-MAN-5012, INF-MAN-5013, INF-MAN-5014, INF-MORT-5001, INF-STAB-5002, INF-STAB-5003, INF-STAB-5004 (NAVMC 3500.44D)
RECN-GRND-3002, RECN-SHAP-3026, RECN-AMPH-4008, RECN-C2-4007, RECN-C2-4008, RECN-C2-4009, RECN-COLL-4001, RECN-FP-4001, RECN-GRND-4001, RECN-GRND-4004, RECN-GRND-4007, RECN-GRND-4020, RECN-GRND-4021, RECN-GRND-4028, RECN-INTL-4001, RECN-RAID-4002, RECN-RAID-4003, RECN-RAID-4004, RECN-RAID-4005, RECN-SHAP-4001, RECN-SHAP-4002, RECN-SHAP-4007, RECN-SURV-4001, (NAVMC 3500.55C)
MSOF-C2-4023, MSOF-C2-4024, MSOF-C2-4025, MSOF-C2-4027, MSOF-C2-4028, MSOF-DA-4100, MSOF-DA-4101, MSOF-DA-4102, MSOF-FID-4201, MSOF-FID-4204, MSOF-FID-4205, MSOF-FSPT-4230, MSOF-PE-4400, MSOF-SR-4600, MSOF-SR-4601, MSOF-SR-4602, MSOF-SR-4603, MSOF-SR-4604, MSOF-SR-4605, MSOF-SR-4606, MSOF-SR-4607, MSOF-SR-4608, MSOF-SR-4609, MSOF-SR-4610, MSOF-SR-4611, MSOF-SR-4615, MSOF-SR-4616, MSOF-SR-4618, MSOF-UW-4700, MSOF-UW-4703, MSOF-US-4715, MSOF-IW-4800 (NAVMC 3500.97)
Admin Instructions

Commercial off the shelf RF equipment can need to be purchased to construct antennas and test directional antennas for effectiveness before using them for radio DF.
Training can easily be conducted against a scripted emitter or a known broadcast beacon in the appropriate RF band (weather channel)

SIGINT T&R MANUAL

CHAPTER 5

MOS 2602 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 5

MOS 2602 INDIVIDUAL EVENTS

5000. PURPOSE. This chapter details the individual events that pertain to Signals Intelligence/Electronic Warfare Officers. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

5001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2602	SIGINT/EW Officer

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
MGMT	Management

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
2000	Core Plus Skills

5002. INDEX OF 2602 INDIVIDUAL EVENTS

2602-MGMT-2001: Manage electronic warfare (EW) operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

DESCRIPTION: Manage, plan, and coordinate organic EW capabilities to support mission requirements, and maximize SIGINT/EW effectiveness at all echelons.

MOS PERFORMING: 2602

BILLETS: COPs Officer, Cadre OIC, Cyber/EW Plans Officer, Electronic Warfare Officer, FOPs Officer, OCAC OIC, SIMO, TCAC Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given SIGINT/EW organizations, mission tasking, references, and authorized resources

STANDARD: Ensure proper conduct and execution of EW operations, within a time limit established by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Apply legal considerations.
3. Conduct EW mission planning.
4. Coordinate with national/theater agencies, as required.
5. Provide input to Intelligence gain/loss (IGL).
6. Manage de-confliction of EW operations.
7. Evaluate effectiveness of Electronic Attack (EA).
8. Determine measure of performance (MOP).
9. Determine measure of effectiveness (MOE).

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. MCRP 3-32D.1 Electronic Warfare

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: JEWTOC

2602-MGMT-2002: Evaluate technical SIGINT/EW mission readiness

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

DESCRIPTION: Identify all resource requirements, and advise commander on technical solutions with respect to SIGINT/EW readiness.

MOS PERFORMING: 2602

BILLETS: COPs Officer, Cadre OIC, EW Plans Officer, Electronic Warfare Officer, FOPs Officer, OCAC OIC, SIMO, TCAC Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given mission requirements and/or tasking, references, and authorized resources

STANDARD: To ensure compliance IAW references, within a time limit established by the commander.

PERFORMANCE STEPS:
1. Validate technical SIGINT/EW operational readiness.
2. Validate SIGINT/EW unit training plan.
3. Incorporate lessons learned/after action reports (AAR) into future training and operations.

REFERENCES:
1. JP 2-01 Joint and National Intelligence Support to Military Operations
2. MAGTF EW Information System Initial Capabilities Document
3. MCDP 3 Expeditionary Operations
4. MCDP 5 Planning
5. MCIP 3-40G.2i Waste Management for Deployed Forces
6. MCRP 1-10.1 Organization of the United States Marine Corps
7. MCRP 2-10A.1 Signals Intelligence
8. MCRP 2-10B.1 Intelligence Preparation of the Battlefield/Battlespace

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2602-MGMT-2003: Manage SIGINT/EW equipment integration

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: Research, procure, integrate, and maintain SIGINT/EW related capabilities in support of SIGINT/EW operations and training.

MOS PERFORMING: 2602

BILLETS: IPS HQMC, MARCORSYSCOM Project Officer, NSA WIP, SIMO, TCAC Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given commander's intent or mission tasking, references, and authorized resources

STANDARD: To ensure operational relevancy, within a time limit established by the commander.

PERFORMANCE STEPS:
1. Identify capabilities/limitations of all SIGINT/EW assets.
2. Research solutions to address mission shortfalls.
3. Produce formalized documentation.
4. Validate POR documentation.
5. Facilitate contracting/acquisition services.
6. Provide SIGINT/EW equipment assets/resources.
7. Ensure systems have Interim Authority to Operate (IATO)/Authority to Operate (ATO).
8. Coordinate equipment training.
9. Coordinate integration of new capabilities into SIGINT/EW architecture.
10. Ensure integration capabilities into program of record.
11. Manage SIGINT/EW system configuration.
12. Manage SIGINT/EW systems readiness.
13. Manage SIGINT/EW Authorized Acquisition Objective (AAO).
14. Manage field user evaluations.

REFERENCES:
1. MCO 5239.2B Marine Corps Cybersecurity
2. MCRP 3-30B.2 MAGTF Communications System

SUPPORT REQUIREMENTS:

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS:
ACQ101 (DAU)
PREREQUISITE EVENTS: ACQ 101 (Defense Acquisition University)

2602-MGMT-2004: Manage SIGINT/EW production

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

DESCRIPTION: Manage production and reporting to satisfy information and intelligence requirements.

MOS PERFORMING: 2602

BILLETS: OCAC OIC, SIEW Officer, TCAC Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given authorities, information requirements, tasking, collected information, references, and authorized resources

STANDARD: To satisfy information requirements, within a time limit established by the commander.

PERFORMANCE STEPS:

1. Review information requirements and/or tasking.
2. Apply legal considerations, as required.
3. Determine reporting criteria.
4. Validate appropriate reporting vehicles.
5. Manage production of SIGINT/EW product(s).
6. Manage SIGINT/EW reporting to 2nd party customers.
7. Manage SIGINT/EW reporting to 3rd party customers.
8. Manage SIGINT/EW reporting to allied customers.
9. Manage SIGINT/EW reporting to coalition customers.
10. Release SIGINT/EW reports.
11. Provide technical information to supported units, as required.

REFERENCES:

1. DoD Regulation 5240.1-R Procedures Governing DoD Intelligence Components Affecting U.S. Persons
2. DoDI 3305.09 DoD Cryptologic Training
3. EO 12333 U.S. Intelligence Activities (As Amended)
4. ICD 705 Sensitive Compartmented Information Facilities
5. ICD 705 Technical Specifications Version 1.4
6. ICPG 705.1 Physical and Technical Standards for Sensitive Compartmented Information Facilities
7. ICPG 705.2 Standards for the Accreditation and Reciprocal Use of Sensitive Compartmented Information Facilities
8. JP 2-0 Joint Intelligence
9. JP 2-01 Joint and National Intelligence Support to Military Operations
10. MCDP 3 Expeditionary Operations
11. MCDP 5 Planning
12. MCO 1553.3_ Unit Training Management (UTM) Program
13. MCRP 1-10.1 Organization of the United States Marine Corps
14. MCRP 2-10A.1 Signals Intelligence
15. MCRP 2-10B.1 Intelligence Preparation of the Battlefield/Battlespace
16. NSA/CSS Policy 1-23 Procedures Governing NSA/CSS Activities That Affect U.S. Persons

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2602-MGMT-2005: Plan cyberspace operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Plan and coordinate cyberspace operations in support of mission requirements to maximize effectiveness utilizing assets at all echelons.

MOS PERFORMING: 2602

BILLETS: Cryptologic Cyber Planner, Cyber/EW Plans Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, and authorized resources

STANDARD: To satisfy mission requirements within a time limit established by the commander.

PERFORMANCE STEPS:

1. Review mission tasking.
2. Apply legal considerations.
3. Conduct cyberspace mission planning.
4. Provide technical support to cyberspace operations planning.
5. Coordinate with higher/adjacent units.
6. Coordinate with national/theater agencies, as required.
7. Assess intelligence gain/loss (IGL).
8. Assess technical gain/loss (TGL).
9. Conduct de-confliction of cyberspace operations.
10. Manage production of cyberspace operation products.
11. Determine measure of effectiveness (MOE).
12. Determine measure of performance (MOP).

REFERENCES:

1. DCID 7/3 Information Operations and Intelligence Community related Activities
2. Document 5a. NSCID No 6 Signals Intelligence
3. DoDD O-3600.3 Technical Assurance Standards for computer Network Attack (CNA)
4. DODI S-5240.mm Counterintelligence In Cyberspace
5. EO 12333 U.S. Intelligence Activities (As Amended)
6. JP 2-02 National Intelligence Support to Joint Operations
7. JP 3-12 Cyberspace Operations
8. JP 3-13 Information Operations
9. MCIP 3-40G.2i Waste Management for Deployed Forces
10. MCO 5239.2B Marine Corps Cybersecurity
11. MCRP 2-10A.1 Signals Intelligence
12. MOA DOD/IC Memorandum Of Agreement Between the DOD and IC regarding CAN/CNE Activities, 2 Apr 2004
13. NSA/CSS Policy 1-58 NSA/CSS Policy 1-58
14. SIGINT FOC Marine Corps SIGINT Future Operating Concept 2009-2015, 15 Jan 2009
15. USSID DA3655 Computer Network Exploitation
16. USSID DA3857 USSID DA3857
17. USSID SG5000 USSID SG5000

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Joint Network Attack Course (JNAC)

2602-MGMT-2006: Manage SIGINT collection

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

DESCRIPTION: Coordinate, request, and/or direct collection tasking to maximize SIGINT collection utilizing assets and resources at all echelons.

MOS PERFORMING: 2602

BILLETS: Collection Manager, Collection Officer, OCAC OIC, Resource Manager

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given information requirements and/or tasking, references, and authorized resources

STANDARD: To satisfy information requirements, within a time limit established by the commander.

PERFORMANCE STEPS:
1. Review information requirements.
2. Identify SIGINT authorities.
3. Apply legal considerations, as required.
4. Provide SIGINT capabilities to overall collection plan.
5. Identify SIGINT collection gaps to overall collection plan.
6. Coordinate with MAGTF EW capabilities.
7. Coordinate with national/theater agencies, as required.
8. Manage SIGINT assets and resources.
9. Evaluate collection effectiveness.

REFERENCES:
1. DODD S-3115.7 Signals Intelligence
2. FM 34-2 Collection Management and Synchronization Planning
3. MCDP 5 Planning
4. MCRP 2-10A.1 Signals Intelligence
5. MCRP 2-10B.1 Intelligence Preparation of the Battlefield/Battlespace
6. MCRP 3-32D.1 Electronic Warfare
7. USSIDS United States Signals Intelligence Directives

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Intelligence Collection Management Course, Joint Military Training Center - Bolling AFB; Naval Collection Manager's course, Information Warfare Training Center - Hampton Roads.

SIGINT T&R MANUAL

CHAPTER 6

MOS 2611 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 6

MOS 2611 INDIVIDUAL EVENTS

6000. PURPOSE. This chapter details the individual events that pertain to Cryptologic Cyberspace Analysts. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

6001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2611	Cryptologic Cyberspace Analyst

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
CYBR	Cyberspace
INTL	Intelligence

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
1000	Core Skills
2000	Core Plus Skills

6002. INDEX OF 2611 INDIVIDUAL EVENTS

2611-INTL-1001: Conduct digital network survey

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

MOS PERFORMING: 2611

GRADES: LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given authorities, with the aid of references, appropriate certifications, given mission tasking, currently-fielded equipment, and a target environment.

STANDARD: To exploit a network of interest within time limits and constraints established by the commander.

PERFORMANCE STEPS:
1. Identify networks of interest.
2. Scan network for devices.
3. Identify devices of interest.
4. Use collected data to refine the collection plan.

REFERENCES:
1. DoDD 8140.01 Cyberspace Workforce Management
2. JP 3-12 Cyberspace Operations
3. MCDP 2 Intelligence
4. MCO 3100.4 Cyberspace Operations

2611-INTL-1002: Conduct tactical digital network mapping

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

MOS PERFORMING: 2611

GRADES: LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Utilizing survey and collected traffic.

STANDARD: Provide network map within 80% accuracy.

PERFORMANCE STEPS:
1. Review Survey data.
2. Conduct additional surveys.
3. Review intelligence reporting.
4. Issue RFIs to external elements.
5. Identify devices on the network.

6. Identify communication pathways.
7. Correlate devices to targets.
8. Provide results for input to collection plan or requesting entities.

REFERENCES:
1. DoDD 8140.01 Cyberspace Workforce Management
2. JP 3-12 Cyberspace Operations
3. MCDP 2 Intelligence
4. MCO 3100.4 Cyberspace Operations

2611-INTL-1003: Perform vulnerability analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

MOS PERFORMING: 2611

GRADES: LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given authorities, with the aid of references, appropriate certifications, given mission tasking, currently-fielded equipment, a target environment, a spectrum survey.

STANDARD: To exploit a network of interest within time limits and constraints established by the commander.

PERFORMANCE STEPS:
1. Review survey data.
2. Review network map.
3. Identify services and applications.
4. Conduct research of services and applications.
5. Link vulnerabilities to available services and applications.
6. Link capabilities to vulnerabilities.
7. Perform exploitation risk assessment.
8. Develop exploitation OPPLAN.

REFERENCES:
1. DoDD 8140.01 Cyberspace Workforce Management
2. JP 3-12 Cyberspace Operations
3. MCDP 2 Intelligence
4. MCO 3100.4 Cyberspace Operations

2611-INTL-1004: Collect digital network information

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

MOS PERFORMING: 2611

GRADES: LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given authorities, with the aid of references, appropriate certifications, given mission tasking, currently-fielded equipment, a target environment, a spectrum survey.

STANDARD: To exploit a network of interest within time limits and constraints established by the commander.

PERFORMANCE STEPS:
1. Configure collection software.
2. Utilize collection equipment.
3. Create scripts.
4. Collect network data.
5. Collect wireless network data.
6. Perform network reconnaissance of a targeted network.
7. Conduct open source intelligence collection.

REFERENCES:
1. DoDD 8140.01 Cyberspace Workforce Management
2. JP 3-12 Cyberspace Operations
3. MCDP 2 Intelligence
4. MCO 3100.4 Cyberspace Operations

2611-INTL-1005: Create a digital network map

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

MOS PERFORMING: 2611

GRADES: LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given authorities, with the aid of references, appropriate certifications, given mission tasking, currently-fielded equipment, a target environment, a spectrum survey, and a network map.

STANDARD: To map the given network within time limits and constraints established by the commander.

PERFORMANCE STEPS:
1. Perform UNIX host analysis.
2. Perform Windows host analysis.
3. Perform storage device analysis.
4. Perform network device analysis.
5. Perform network security device analysis.
6. Perform session reconstruction.
7. Identify security mechanisms.
8. Identify intrusion detection devises.
9. Identify operating systems.
10. Identify network devices.
11. Identify servers.
12. Identify network architectures.
13. Identify virtual devices.
14. Create logical map of wireless devices.

REFERENCES:
1. DoDD 8140.01 Cyberspace Workforce Management
2. JP 3-12 Cyberspace Operations
3. MCDP 2 Intelligence
4. MCO 3100.4 Cyberspace Operations

2611-INTL-1006: Enable exploitation of digital network

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

MOS PERFORMING: 2611

GRADES: LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given authorities, with the aid of references, appropriate certifications, given mission tasking, currently-fielded equipment, a target environment, a spectrum survey, and a network map.

STANDARD: To exploit a signal of interest within time limits and constraints established by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Apply legal considerations.
3. Apply technical considerations.
4. Identify operational constraints.
5. Identify environmental constraints.
6. De-conflict operations.
7. Identify vulnerabilities.
8. Employ equipment.
9. Conduct post-mission analysis.
10. Disseminate mission results.

REFERENCES:

1. Document 5a. NSCID No 6 Signals Intelligence
2. DoDD 8140.01 Cyberspace Workforce Management
3. DODD O-3600.3 Technical Assurance Standards for Computer Network Attack (CNA)
4. DODI S-5240.mm Counterintelligence In Cyberspace
5. EO 12333 U.S. Intelligence Activities (As Amended)
6. JP 3-12 Cyberspace Operations
7. JP 3-13R Cyberspace Operations
8. MCDP 2 Intelligence
9. MCO 3100.4 Cyberspace Operations
10. MCRP 2-10A.1 Signals Intelligence
11. MOA DOD/IC Memorandum Of Agreement Between the DOD and IC regarding CAN/CNE Activities, 2 Apr 2004
12. NSA/CSS Policy 1-58 NSA/CSS Policy 1-58
13. SIGINT FOC Marine Corps SIGINT Future Operating Concept 2009-2015, 15 Jan 2009
14. USSID DA3655 Computer Network Exploitation
15. USSID DA3857 USSID DA3857
16. USSID SG5000 USSID SG5000

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Certification Class 3 cert (class 3 CNI operator)

6003. INDEX OF 2611 INDIVIDUAL EVENTS - 2 LEVEL EVENTS

Event Code	Event	Page
2000 Level Events		
2611-CYBR-2001	Provide Support to cyberspace operations	6-1
2611-CYBR-2002	Support CO planning	6-2

2611-CYBR-2001: Provide Support to cyberspace operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

MOS PERFORMING: 2611

GRADES: CPL, SGT

INITIAL LEARNING SETTING: MOJT

CONDITION: With the aid of references, given a signals environment, collected traffic, currently-fielded equipment, database access, and granted authorities.

STANDARD: To disrupt adversarial cyberspace operations.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Apply legal considerations.
3. Select equipment.
4. Select tools/techniques.
5. Safeguard tools/techniques.
6. Exploit the target environment.
7. Apply effects.
8. Conduct battle damage assessment.

REFERENCES:
1. DoDD 8140.01 Cyberspace Workforce Management
2. EO 12333 U.S. Intelligence Activities (As Amended)
3. ICD 502 Integrated Defense of the Intelligence Community Information Environment
4. JP 3-12 Cyberspace Operations
5. MCO 3100.4 Cyberspace Operations
6. NSA/CSS Policy 1-58 NSA/CSS Policy 1-58
7. USSID DA3655 Computer Network Exploitation
8. USSID DA3857 USSID DA3857
9. USSID SG5000 USSID SG5000

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: The NMOS 2612 will be added to this T&R event once the MOS Manual is updated.

2611-CYBR-2002: Support CO planning

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The Marine provides support to cyberspace mission requirements by maximizing the effectiveness capability utilization at all echelons. Marine must have thorough knowledge of JOPP, MCPP and R2P2.

MOS PERFORMING: 2611

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: MOJT

CONDITION: With the aid of references, given mission tasking, currently-fielded equipment, database access, collected data, and granted authorities.

STANDARD: To satisfy mission requirements, within a time limit established by the commander.

PERFORMANCE STEPS:

1. Review mission tasking.
2. Apply legal considerations.
3. Coordinate with MAGTF elements.
4. Coordinate with national/theater agencies.
5. Provide input to intelligence gain/loss (IGL).
6. Provide SIGINT measure of effectiveness (MOE).
7. Provide SIGINT measure of performance (MOP).

REFERENCES:

1. Document 5a. NSCID No 6 Signals Intelligence
2. DODD 5240.1 DoD Intelligence Activities
3. DoDD 8140.01 Cyberspace Workforce Management
4. DoDD O-3600.3 Technical Assurance Standards for computer Network Attack (CNA)
5. DODI S-5240.mm Counterintelligence In Cyberspace
6. EO 12333 U.S. Intelligence Activities (As Amended)
7. JP 2-02 National Intelligence Support to Joint Operations
8. JP 3-12 Cyberspace Operations
9. JP 3-13 Information Operations
10. JP 3-13R Cyberspace Operations
11. JP 5-0 Joint Planning
12. MCO 3100.4 Cyberspace Operations
13. MCRP 2-10A.1 Signals Intelligence
14. MOA DOD/IC Memorandum Of Agreement Between the DOD and IC regarding CAN/CNE Activities, 2 Apr 2004
15. NSA/CSS Policy 1-58 NSA/CSS Policy 1-58
16. SIGINT FOC Marine Corps SIGINT Future Operating Concept 2009-2015, 15 Jan 2009
17. USSID DA3655 Computer Network Exploitation
18. USSID DA3857 USSID DA3857
19. USSID SG5000 USSID SG5000

SIGINT T&R MANUAL

CHAPTER 7

MOS 2621 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 7

MOS 2621 INDIVIDUAL EVENTS

7000. PURPOSE. This chapter details the individual events that pertain to Communications Intelligence and Electronic Warfare Operator. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

7001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2621	Communications Intelligence and Electronic Warfare Operator

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
INTL	Intelligence

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
1000	Core Skills
2000	Core Plus Skills

7002. INDEX OF 2621 INDIVIDUAL EVENTS

7003. 2621 INDIVIDUAL EVENTS

2621-INTL-1001: Conduct basic signals analysis and processing

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

DESCRIPTION: The Signals Analyst/Operator will conduct basic processing of raw signals into useable information.

MOS PERFORMING: 2621

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, currently-fielded SIGINT/EW equipment, and a collected signal of interest

STANDARD: To produce useable information from basic signals, in a timeframe dictated by the operational environment.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Apply legal considerations.
3. Select and configure equipment.
4. Determine parametric data.
5. Conduct network protocol analysis.
6. Identify signal type.
7. Conduct post mission processing.
8. Provide results for follow-on analysis, as required.
9. Store.
10. Forward.

REFERENCES:
1. DODI 8570.01-M Information Assurance Workforce Improvement Program
2. MCRP 2-10A.1 Signals Intelligence
3. SECNAVINST 5239.3B DEPARTMENT OF THE NAVY INFORMATION ASSURANCE POLICY 17 June 2009
4. USSIDS United States Signals Intelligence Directives

2621-INTL-2001: Conduct advanced signals analysis and processing

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

DESCRIPTION: The Signals Analyst will conduct intermediate and advanced processing of raw, unidentified signals to evaluate for further exploitation and intelligence value. Additionally, the Signals Analyst will conduct limited computer programming.

MOS PERFORMING: 2621

BILLETS: Signals Analyst

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, authorities, network connectivity, access to databases, SIGINT/EW collections and reporting equipment, and a robust target environment

STANDARD: To determine the intelligence value of unidentified signals for further exploitation, within a time established by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Select and configure equipment.
3. Apply legal considerations.
4. Conduct bit stream analysis.
5. Determine parametric data.
6. Conduct network protocol analysis.
7. Nominate for tasking priority.
8. Generate reports.
9. Develop signals analysis scripts.
10. Assist in the development of SIGINT products.
11. Store.
12. Forward.

REFERENCES: MCRP 2-10A.1 Signals Intelligence

2621-INTL-2002: Conduct basic SIGINT technical analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

MOS PERFORMING: 2621

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given mission tasking, references, collected data, and a currently-fielded analysis and reporting system

STANDARD: To ensure information derived from national, theater, and organic data, is related to unit specific mission, within a time line established by the commander, in accordance with the references.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Select and configure equipment.

3. Determine signal type.
4. Identify signal characteristics.
5. Determine parametric data.
6. Conduct post mission processing.
7. Provide results for follow on analysis.
8. Store data for future reference.
9. Forward data to appropriate repository.

REFERENCES: MCRP 2-10B.1 Intelligence Preparation of the Battlefield/Battlespace

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2621-INTL-2003: Conduct Intermediate ELINT analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The ELINT Analyst will correlate COMINT, IMINT, IRINT, HUMINT, PROFORMA, RADINT, RSBN, and MASINT with ELINT.

MOS PERFORMING: 2621

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given mission tasking, references, collected data, and a currently-fielded analysis and reporting system

STANDARD: To ensure information derived from national, theater, and organic data, is related to unit specific mission, within a time line established by the commander, in accordance with the references.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Select and configure equipment.
3. Determine signal type.
4. Identify signal characteristics.
5. Determine parametric data.
6. Correlate to previously identified emitter.
7. Nominate for tasking/ collection priority.
8. Generate TECHELINT report.
9. Assist in development of SIGINT products.
10. Store data for future reference.
11. Forward data to appropriate repository.

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. USSIDS United States Signals Intelligence Directives

SIGINT T&R MANUAL

CHAPTER 8

MOS 2623 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 8

MOS 2623 INDIVIDUAL EVENTS

8000. PURPOSE

This chapter details the individual events that pertain to Radio Reconnaissance Marines. Marines are to reference the most recent version of the reconnaissance training and readiness manual, NAVMC 3500.55, in order to derive training requirements. Specific radio reconnaissance events are derived from all 1000 level 0321, Reconnaissance Marine, and 2000 level 0326, Reconnaissance Marine Parachute and Combatant Diver Qualified, events. For a complete listing of duties and tasks, refer to the current version of the MOS Manual, NAVMC 1200.1.

SIGINT T&R MANUAL

CHAPTER 9

MOS 2629 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 9

MOS 2629 INDIVIDUAL EVENTS

9000. PURPOSE. This chapter details the individual events that pertain to Signals Intelligence/Electronic Warfare/Cyberspace Operations Technician. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

9001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2629	Signals Intelligence/Electronic Warfare/Cyberspace Operations Technician

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
CYBR	Cyber
OPS	Operations
SIEW	SIGINT/Electronic Warfare

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
2000	Core Plus Skills

9002. INDEX OF 2629 INDIVIDUAL EVENTS

9003. 2629 INDIVIDUAL EVENTS

2629-CYBR-2001: Supervise SIGINT support to Cyberspace Operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: Supervise and coordinate cyberspace operations resources to support mission requirements and plans to maximize effectiveness at all echelons.

MOS PERFORMING: 2629

GRADES: SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given authorities, mission tasking, resources, and network access

STANDARD: To ensure execution of Cyberspace Operation, within a time limit established by the commander.

PERFORMANCE STEPS:
1. Review tasking.
2. Apply legal considerations.
3. Support cyberspace operations mission planning.
4. Coordinate with cyberspace planners.
5. Coordinate with national and theater agencies.
6. De-conflict SIGINT/EW/CO support.
7. Conduct national/tactical integration.

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. MCRP 3-32D.1 Electronic Warfare
3. MCWP 5-10 Marine Corps Planning Process

2629-OPS-2001: Provide Support to mission planning

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The Signals Intelligence/Electronic Warfare (SI/EW) Tech will focus on SIGINT/EW/Cyberspace Operations policy, manning, training, and equipping in support of all phases of the Planning Process.

MOS PERFORMING: 2629

GRADES: SSGT, GYSGT

INITIAL LEARNING SETTING: MOJT

CONDITION: With the aid of references, given resources and an operations order or requirement.

STANDARD: To satisfy SIGINT/EW/CO operational support requirements within the time limit established by the commander.

PERFORMANCE STEPS:
1. Review all applicable operations plans, orders, and requirements.
2. Apply legal considerations.
3. Draft annexes and appendices.
4. Determine SIGINT supportability.
5. Determine EW supportability.
6. Determine CYBER supportability.
7. Determine personnel requirements.
8. Determine unique skill set requirements.
9. Determine training requirements.
10. Determine equipment requirements.
11. Plan for national/tactical integration.
12. Address shortfalls.
13. Make recommendations.

REFERENCES:
1. MCO 1553.3_ Unit Training Management (UTM) Program
2. MCRP 2-10A.1 Signals Intelligence

2629-SIEW-2001: Conduct quality control SIGINT reporting

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

MOS PERFORMING: 2629

GRADES: SSGT, GYSGT

INITIAL LEARNING SETTING: MOJT

CONDITION: To satisfy the Commander's planning, decision, execution, and assessment and other information requirements.

STANDARD: Within established time limits, constraints, tasks, and parameters and in accordance with applicable USSIDs.

PERFORMANCE STEPS:
1. Review SIGINT reporting requirements.
2. Review classification level.
3. Apply legal considerations.
4. Determine dissemination medium.

REFERENCES:
1. MCDP 2 Intelligence
2. MCRP 2-10A.1 Signals Intelligence

2629-SIEW-2002: Supervise SIGINT Operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The Signals Intelligence/Electronic Warfare (SIGINT/EW) Tech will oversee SIGINT collection, analysis, and production to ensure timely and accurate reporting which conforms to legal compliance and minimization policy.

MOS PERFORMING: 2629

GRADES: SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given information requirements and a SIGINT element (collection, analysis, and SI communications).

STANDARD: To ensure SIGINT production satisfies information requirements, in the time limit established by directives.

PERFORMANCE STEPS:
1. Review SIGINT reporting requirements.
2. Identify EEIs from information requirements.
3. Create the SIGINT collection plan.
4. Allocate collection resources.
5. Prioritize analysis and production efforts.
6. Manage requirements for production/dissemination.
7. Conduct intelligence gain/loss analysis.
8. Enforce legal compliance and minimization policy.
9. Conduct external integration.
10. Coordinate logistical requirements with S/G-4.

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. MCTP 2-10B MAGTF Intelligence Production and Analysis
3. NIPF National Intelligence Priorities Framework (NIPF)
4. USSID CR1400 (SMGT-2002, 2005, 2006)
5. USSID CR1500 (SMGT-2002, 2005, 2006)
6. USSID SP0009 USSID SP0009

2629-SIEW-2003: Disseminate SIGINT products

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The SIEW Tech will disseminate SIGINT products utilizing authorized distribution media and reporting mechanisms to authorized consumers ensuring reporting time limits are met as required. Domains pertaining to this event include air, land, maritime, space, and cyberspace.

MOS PERFORMING: 2629

GRADES: SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given a mission and authorities, intelligence information, database access with necessary certifications, and currently-fielded equipment.

STANDARD: To satisfy the commander's planning, decision, execution, and assessment within time limits, constraints, mission tasks, and parameters as well as other Information Needs.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Apply legal considerations.
3. Review SIGINT product.
4. Determine dissemination medium.
5. Coordinate with releasing authorities.
6. Sanitize products, as authorized.

REFERENCES:
1. MCTP 2-10B MAGTF Intelligence Production and Analysis
2. SECNAVINST 5510.34_ Disclosure of Classified Military Information and Controlled Unclassified Information to Foreign Governments, International Organizations, and Foreign Representatives
3. USSID CR1400 (SMGT-2002, 2005, 2006)
4. USSID CR1500 (SMGT-2002, 2005, 2006)
5. USSID CR1501 (SMGT-2002)
6. USSIDS United States Signals Intelligence Directives

2629-SIEW-2004: Supervise EW Ops

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

DESCRIPTION: Supervise and coordinate EW resources to support mission requirements and plans to maximize effectiveness at all echelons. The individual may be expected to coordinate with subordinate units/teams as well as higher echelons to coordinate EW functions of EA, ES, and EP.

MOS PERFORMING: 2629

GRADES: SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given a signals environment, currently fielded equipment, and tasking.

STANDARD: To ensure execution of EW operations, within a time limit established by the commander.

PERFORMANCE STEPS:
1. Review tasking.
2. Apply legal considerations.
3. Support EW mission planning.
4. Coordinate with EW agencies, higher, adjacent, and subordinate units.
5. Coordinate SIGINT support.
6. Assess measures of effectiveness/MOP.

REFERENCES:
1. ATO Air Tasking Order
2. MCRP 2-10A.1 Signals Intelligence
3. MCRP 3-32D.1 Electronic Warfare
4. USSIDS United States Signals Intelligence Directives

SIGINT T&R MANUAL

CHAPTER 10

MOS 2631 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 10

MOS 2631 INDIVIDUAL EVENTS

10000. PURPOSE. This chapter details the individual events that pertain to Signals Intelligence/Electronic Warfare (SIGINT/EW) Electronic Intelligence (ELINT) Analyst. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

10001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2631	SIGINT/EW ELINT Analyst

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
FUND	Fundamentals
INTL	Intelligence
OPEL	OPELINT
PROD	Production
TECH	TECH ELINT

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
1000	Core Skills
2000	Core Plus Skills

10002. INDEX OF 2631 INDIVIDUAL EVENTS

2000 Level Events		
2631-INTL-2001	Maintain the parametric electronic order of battle (PEOB)	10-12
2631-INTL-2002	Conduct post-mission SIGINT/EW analysis	10-13

10003. 2631 INDIVIDUAL EVENTS

2631-FUND-1001: Identify the characteristics of an ELINT signal

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The ELINT analyst will evaluate collected signal parameters in order to classify signals in the appropriate SIGINT category (COMINT, ELINT, FISINT etc). Appropriate identification of SIGINT is necessary to correlate signal parameters to specific emitters, communication systems and weapon/radar platforms. (MCTP 2-10.A, P. 1-7)

MOS PERFORMING: 2629, 2631

BILLETS: OCAC Marine, OCE Marine, SIEW Team Member

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given SIGINT/EW equipment, mission tasking, references, and authorized resources.

STANDARD: Characterize a collected signal in order to correlate signal parameters to specific emitters, communication systems and weapon/radar platforms. (MCTP 2-10.A, P. 1-7)

PERFORMANCE STEPS:
1. Identify ELINT parametrics
2. Apply mathematical concepts
3. Correlate ELINT parametrics to known signals

REFERENCES: MCTP 2-10A MAGTF Intelligence Collection

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
SUPPLEMENTARY REFERENCES
1. CTS/TS
2. Integrated Broadcast User's Guide (IBUG)
3. USSID 314 (U//FOUO)Technical Electronic Intelligence
4. USSID 212 (U//FOUO) Time-Sensitive SIGINT Reporting Procedures via KL/Tactical Reports
5. USSID 219 (U) Handling of Critical Information
6. USSID 220 (U//FOUO) SIGINT Dissemination: Tactical Electronic Intelligence (ELINT) Reporting

7. NSA/CSS Policy 11-9 NSA/CSS Support to Electronic Warfare and Joint Electromagnetic Spectrum Operations
8. USSID 317 (U//FOUO) SIGINT Tracking and Targeting of Maritime Vessels
9. USSID 318 (U//FOUO) SIGINT Tracking and Targeting of Aircraft
10. USSID 315 (U//FOUO) Communication Emitter Notation Reporting System
11. USSID 306 (U//FOUO) SIGINT Signal Surveys
12. USSID 304 (U//FOUO) SIGINT in Support of Information Operations
13. USSID 217 (U//FOUO)Reporting of Threat Warning Information
14. USSID 125 (U//FOUO) Tactical SIGINT Data Format
Chained Events
Internal Supported Events:
2631-FUND-1002: Correlate ELINT signals to system.
2631-OPEL-1001: Conduct OPELINT analysis
2631-OPEL-1002: Access Combined Integrated Broadcast (CIB)
2631-PDNR-1001: Produce ELINT products
2631-TECH-1001: Conduct TECH ELINT Analysis
SUPPORT REQUIREMENTS:
Range(s)/Training Area - Appropriate signals environment that can support necessary signals generation and unit movement. Event can be accomplished via rx'ing the live real word IBS feed in any designated training area.
Ordnance
Materials -
Equipment Access to CIB ex.ENTR, Access to analytic software suite for analysis(GALE, MIST, TCAC, etc)
Learning Aids Flight Crew Checklist/ Local SOP, IBUG, TCAC Operators Guide
Units/Personnel (List specific units or personnel without which the event cannot be accomplished.)
Admin Instructions This event could be accomplished via a connected environment through GALE LITE, MIST, Wrangler etc with access to the national level feeds. However, this event should be evaluated at the tactical level using POR equipment and tactical IBS/CIB feed over the ENTR and analyzed via GALE LITE on the TCAC.

2631-FUND-1002: Correlate ELINT signals to system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The ELINT analyst will match collected signal parameters to known characteristics of threat systems or platforms in order to identify a specific threat system or platform for reporting in accordance with intelligence requirements. (MCTP 2-10A 7-7)

MOS PERFORMING: 2629, 2631

BILLETS: OCAC Marine, OCE Marine, SIEW Team Member

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given SIGINT/EW equipment, mission tasking, references, authorized resources, and collected signal parameters.

STANDARD: Correlate collected signal parameters in order to identify a specific threat system or platform. (MCTP 2-10A 7-7)

PERFORMANCE STEPS:

1. Identify RADAR systems
2. Identify the components of RADAR system
3. Identify RADAR system functions
4. Correlate ELINT parametrics to system
5. Correlate ELINT parametrics

REFERENCES: MCTP 2-10A MAGTF Intelligence Collection

SUPPORT REQUIREMENTS:

ADDITIONAL RANGE/TRAINING AREA: Appropriate signals environment that can support necessary signals generation and unit movement. Event can be accomplished via rx'ing the live real word IBS feed in any designated training area.

EQUIPMENT: Access to CIB ex.ENTR, Access to analytic software suite for analysis (GALE, MIST, TCAC, etc),

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

Supplementary References:

1. Radio Signal Notation Manual
2. ELINT Parameter Listing
3. CTS/TS
4. Integrated Broadcast User's Guide (IBUG)
5. USSID 314 (U//FOUO)Technical Electronic Intelligence
6. USSID 212 (U//FOUO) Time-Sensitive SIGINT Reporting Procedures via KL/Tactical Reports
7. USSID 219 (U) Handling of Critical Information
8. USSID 220 (U//FOUO) SIGINT Dissemination: Tactical Electronic Intelligence (ELINT) Reporting
9. NSA/CSS Policy 11-9 NSA/CSS Support to Electronic Warfare and Joint Electromagnetic Spectrum Operations
10. USSID 317 (U//FOUO) SIGINT Tracking and Targeting of Maritime Vessels
11. USSID 318 (U//FOUO) SIGINT Tracking and Targeting of Aircraft
12. USSID 315 (U//FOUO) Communication Emitter Notation Reporting System
13. USSID 306 (U//FOUO) SIGINT Signal Surveys
14. USSID 304 (U//FOUO) SIGINT in Support of Information Operations
15. USSID 217 (U//FOUO)Reporting of Threat Warning Information
16. USSID 125 (U//FOUO) Tactical SIGINT Data Format
17. MCRP 2-10B.1 Intelligence Preparation of the Battlefield/Battle Space (IPB)

Chained Events

Prerequisite Events:

2631-FUND-1001: Identify the characteristics of an ELINT signal

Internal Supported Events:

2631-OPEL-1001: Conduct OPELINT analysis

2631-PDNR-1001: Produce ELINT products

2631-TECH-1001: Conduct TECH ELINT Analysis

Internal Supporting Events:
2631-OPEL-1002: Access Combined Integrated Broadcast (CIB)
Learning Aids Flight Crew Checklist/ Local SOP, IBUG, TCAC Operators Guide
Units/Personnel (List specific units or personnel without which the event cannot be accomplished.)
Admin Instructions This event could be accomplished via a connected environment through GALE LITE, MIST, Wrangler etc with access to the national level feeds and PEOB. However, this event should be evaluated at the tactical level using POR equipment and tactical IBS/CIB feed over the ENTR and analyzed via GALE LITE on the TCAC, with a locally built collections database.

2631-OPEL-1001: Conduct OPELINT analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The ELINT analyst will correlate specific emitters with known locations to collected ELINT parameters in order to define the informational environment. (MCTP 2-10A 7-7)

MOS PERFORMING: 2629, 2631

BILLETS: OCAC Marine, OCE Marine, SIEW Team Member

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given a mission and authorities, collected data, intelligence information, database access with necessary certifications, and currently fielded equipment.

STANDARD: Correlate collected signal parameters to known emitters and their know locations in order to define the informational environment. (MCTP 2-10A 7-7)

PERFORMANCE STEPS:
1. Review mission tasking.
2. Utilize appropriate analytical tool suite.
3. Access and apply Electronic Order of Battle (EOB) data to analytical tool suite.
4. Access national data.
5. Correlate emitters to known locations.
6. Correlate emitters to RADARs.
7. Correlate emitters to associate threat weapon systems.
8. Provide appropriate indications and warnings (I&W)and situational awareness to the commander.

REFERENCES: MCTP 2-10A MAGTF Intelligence Collection

SUPPORT REQUIREMENTS:

ADDITIONAL RANGE/TRAINING AREA: Range(s)/Training Area - Appropriate signals environment that can support necessary signals generation and unit movement. Event can be accomplished via rx'ing the live real word IBS feed in any designated training area.

EQUIPMENT: Equipment Access to CIB ex.ENTR, Access to analytic software suite for analysis (GALE, MIST, TCAC, etc).

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

SUPPLEMENTARY REFERENCES:
1. Radio Signal Notation Manual
2. ELINT Parameter Listing
3. CTS/TS
4. Integrated Broadcast User's Guide (IBUG)
5. USSID 314 (U//FOUO)Technical Electronic Intelligence
6. USSID 212 (U//FOUO) Time-Sensitive SIGINT Reporting Procedures via KL/Tactical Reports
7. USSID 219 (U) Handling of Critical Information
8. USSID 220 (U//FOUO) SIGINT Dissemination: Tactical Electronic Intelligence (ELINT) Reporting
9. NSA/CSS Policy 11-9 NSA/CSS Support to Electronic Warfare and Joint Electromagnetic Spectrum Operations
10. USSID 317 (U//FOUO) SIGINT Tracking and Targeting of Maritime Vessels
11. USSID 318 (U//FOUO) SIGINT Tracking and Targeting of Aircraft
12. USSID 315 (U//FOUO) Communication Emitter Notation Reporting System
13. USSID 306 (U//FOUO) SIGINT Signal Surveys
14. USSID 304 (U//FOUO) SIGINT in Support of Information Operations
15. USSID 217 (U//FOUO)Reporting of Threat Warning Information
16. USSID 125 (U//FOUO) Tactical SIGINT Data Format
17. MCRP 2-10B.1 Intelligence Preparation of the Battlefield/Battle Space (IPB)

Chained Events
Prerequisite Events:
2631-FUND-1002: Correlate ELINT signals to system
Internal Supported Events:
2631-PDNR-1001: Produce ELINT products
2631-TECH-1001: Conduct TECH ELINT Analysis
Internal Supporting Events:
2631-OPEL-1002: Access Combined Integrated Broadcast (CIB)
External Supported Events:
C2OP-COC-3001: Maintain a current Common Tactical Picture (CTP), INTL-GEN-3002: Provide Intelligence Support to Targeting
INTL-GEN-6002: Provide Indications and Warning (I&W) INTL-GEN-6003: Provide Intelligence Support to Planning
INTL-GEN-6004: Provide Intelligence Support to Force Protection INTL-OAS-3001: Provide Intelligence Support to General Offensive Air Support Operations INTL-ASLT-3001: Provide Intelligence Support to General Assault Support Operations INTL-ARCN-3001: Provide Intelligence Support to General Air Reconnaissance Operations INTL-ABEW-3001: Provide Intelligence Support to General Airborne Electronic Warfare Operations INTL-ABC2-3001: Provide Intelligence Support to General Airborne Command and Control Operations
INTL-AAW-3001: Provide Intelligence Support to General to Antiair Warfare Operations

Learning Aids Flight Crew Checklist/ Local SOP, IBUG, TCAC Operators Guide
Units/Personnel (List specific units or personnel without which the event cannot be accomplished.)
Admin Instructions This event could be accomplished via a connected environment through GALE LITE, MIST, Wrangler etc with access to the national level feeds and PEOB. However, this event should be evaluated at the tactical level using POR equipment and tactical IBS/CIB feed over the ENTR and analyzed via GALE LITE on the TCAC, with a locally built collections database.

2631-OPEL-1002: Access Combined Integrated Broadcast (CIB)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: Utilizing currently fielded equipment, access Combined Integrated Broadcast to conduct ELINT analysis, Force Protection, and Indications and Warnings (I&W). (Integrated Broadcast User's Guide)

MOS PERFORMING: 2629, 2631

BILLETS: OCAC Marine, OCE Marine, SIEW Team Member

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given SIGINT/EW equipment, mission tasking, references, and authorized resources

STANDARD: Establish functional connection with CIB/IBS and migrate received data to currently fielded analytic tools. (Integrated Broadcast User's Guide)

PERFORMANCE STEPS:
1. Review mission tasking
2. Setup Integrated Broadcast Receiver Equipment
3. Setup associated mission software
4. Migrate data from CIB into currently fielded analytic tools

REFERENCES: IBUG

SUPPORT REQUIREMENTS:

ADDITIONAL RANGE/TRAINING AREA: Range(s)/Training Area: Event can be accomplished via rx'ing the live real word IBS feed in any designated training area.

AIRCRAFT: Equipment Access to CIB ex.ENTR, Access to analytic software suite for analysis(GALE, MIST, TCAC, etc),

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:
SUPPLEMENTARY REFERENCES:
1.MCTP 2-10A
2. NSA/CSS Policy 11-9 NSA/CSS Support to Electronic Warfare and Joint Electromagnetic Spectrum Operations
3. USSID 304 (U//FOUO) SIGINT in Support of Information Operations
4. USSID 217 (U//FOUO)Reporting of Threat Warning Information
5. USSID 125 (U//FOUO) Tactical SIGINT Data Format
6. MCRP 2-10B.1 Intelligence Preparation of the Battlefield/Battle Space (IPB)
Chained Events
Prerequisite Events:
Internal Supported Events:
2631-PDNR-1001: Produce ELINT products
2631-TECH-1001: Conduct TECH ELINT Analysis
2631-FUND-1001: Identify the characteristics of an ELINT signal
2631-FUND-1002: Correlate ELINT signals to system
2631-OPEL-1001: Conduct OPELINT analysis
Learning Aids Flight Crew Checklist/ Local SOP, IBUG, TCAC Operators Guide
Units/Personnel: MCSB units will not be able to complete the event using tactical PORs. They may still complete the task via classified network connection and receive the networked CIB/IBS feed.
Admin Instructions: This event should be evaluated at the tactical level using POR equipment (ENTR)to establish the connection, receive the feed and route it to a local database for use with POR software interface(ex. GALE LITE and TCAC server 2.)

2631-PROD-1001: Produce ELINT products

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The ELINT analyst researches automated collection feeds and reviews finished intelligence reports to gather signal activity, function, and parameters in order to derive products that provide force protection, indications, and warnings; updates to orders of battle; and inform the commander's decision cycle. (MCTP 2-10A 7-7, 7-9, 7-10)

MOS PERFORMING: 2629, 2631

BILLETS: OCAC Marine, OCE Marine, SIEW Team Member

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given SIGINT/EW equipment, mission tasking, references, and authorized resources

STANDARD: Provide ELINT analysis and reporting updates to inform the commander's decision making cycle.(MCTP 2-10A 7-7, 7-9, 7-10)

PERFORMANCE STEPS:

1. Review mission tasking
2. Access appropriate databases
3. Assess emitter activity
4. Summarize emitter activity
5. Update appropriate orders of battle
6. Produce products specified by supported commander

REFERENCES: MCTP 2-10A MAGTF Intelligence Collection

SUPPORT REQUIREMENTS:

ADDITIONAL RANGE/TRAINING AREA: Appropriate signals environment that can support necessary signals generation and unit movement. Event can be accomplished via rx'ing the live real word IBS feed in any designated training area.

EQUIPMENT: Equipment Access to CIB ex.ENTR, Access to analytic software suite for analysis (GALE, MIST, TCAC, etc)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

SUPPLEMENTARY REFERENCES
1. ELINT Parameter Listing
2. CTS/TS
3. Integrated Broadcast User's Guide (IBUG)
4. USSID 314 (U//FOUO)Technical Electronic Intelligence
5. USSID 212 (U//FOUO) Time-Sensitive SIGINT Reporting Procedures via KL/Tactical Reports
6. USSID 219 (U) Handling of Critical Information
7. USSID 220 (U//FOUO) SIGINT Dissemination: Tactical Electronic Intelligence (ELINT) Reporting
8. NSA/CSS Policy 11-9 NSA/CSS Support to Electronic Warfare and Joint Electromagnetic Spectrum Operations
9. USSID 317 (U//FOUO) SIGINT Tracking and Targeting of Maritime Vessels
10. USSID 318 (U//FOUO) SIGINT Tracking and Targeting of Aircraft
11. USSID 315 (U//FOUO) Communication Emitter Notation Reporting System
12. USSID 306 (U//FOUO) SIGINT Signal Surveys
13. USSID 304 (U//FOUO) SIGINT in Support of Information Operations
14. USSID 217 (U//FOUO)Reporting of Threat Warning Information
15. USSID 125 (U//FOUO) Tactical SIGINT Data Format
16. MCRP 2-10B.1 Intelligence Preparation of the Battlefield/Battle Space (IPB)

Chained Events
Prerequisite Events:
2631-OPEL-1002: Access Combined Integrated Broadcast (CIB)
2631-FUND-1001: Identify the characteristics of an ELINT signal
2631-FUND-1002: Correlate ELINT signals to system
2631-TECH-1001: Conduct TECH ELINT analysis
2631-OPEL-1001: Conduct OPELINT analysis
External Supported Events:
C2OP-COC-3001: Maintain a current Common Tactical Picture (CTP), INTL-GEN-3002: Provide Intelligence Support to Targeting
INTL-GEN-6002: Provide Indications and Warning (I&W) INTL-GEN-6003: Provide Intelligence Support to Planning

INTL-GEN-6004: Provide Intelligence Support to Force Protection INTL-OAS-3001: Provide Intelligence Support to General Offensive Air Support Operations INTL-ASLT-3001: Provide Intelligence Support to General Assault Support Operations INTL-ARCN-3001: Provide Intelligence Support to General Air Reconnaissance Operations INTL-ABEW-3001: Provide Intelligence Support to General Airborne Electronic Warfare Operations INTL-ABC2-3001: Provide Intelligence Support to General Airborne Command and Control Operations INTL-AAW-3001: Provide Intelligence Support to General to Antiair Warfare Operations
Learning Aids Flight Crew Checklist/ Local SOP, IBUG, TCAC Operators Guide
Units/Personnel (List specific units or personnel without which the event cannot be accomplished.)
Admin Instructions This event could be accomplished via a connected environment through GALE LITE, MIST, Wrangler etc with access to the national level feeds and PEOB. However, this event should be evaluated at the tactical level using POR equipment and tactical IBS/CIB feed over the ENTR and analyzed via GALE LITE on the TCAC, with a locally built collections database.

2631-TECH-1001: Conduct TECH ELINT analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The ELINT Analyst will analyze, characterize, and measure parametric data of RADAR signals. (MCTP 2-10A 7-7, 7-8, 7-9)

MOS PERFORMING: 2629, 2631

BILLETS: OCAC Marine, OCE Marine, SIEW Team Member

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: Given SIGINT/EW equipment, mission tasking, references, previously collected signals of interest (SOI), and authorized resources

STANDARD: Correlate collected signal parameters to known parametric data in order to properly identify signal of interest. (JP 2-0)

PERFORMANCE STEPS:
1. Review mission tasking.
2. Apply legal considerations.
3. Employ analytical tool suite.
4. Determine descriptive characteristics of SOI.
5. Identify measurable characteristics of SOI.
6. Identify SOI utilizing appropriate and available resources.
7. Produce products specified by the supported commander.

REFERENCES: MCTP 2-10A MAGTF Intelligence Collection

SUPPORT REQUIREMENTS:

ADDITIONAL RANGE/TRAINING AREA: Appropriate signals environment that can support necessary signals generation and unit movement. Event can be accomplished via rx'ing the live real word IBS feed or collected RADAR signal in any designated training area.

EQUIPMENT: Access to CIB ex.ENTR, Access to analytic software suite for analysis(GALE, MIST, TCAC, etc), Signal Analysis Software (ex. Aspen)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

SUPPLEMENTARY REFERENCES
1. ELINT Parameter Listing
2. CTS/TS
3. Integrated Broadcast User's Guide (IBUG)
4. USSID 314 (U//FOUO)Technical Electronic Intelligence
5. USSID 212 (U//FOUO) Time-Sensitive SIGINT Reporting Procedures via KL/Tactical Reports
6. USSID 219 (U) Handling of Critical Information
7. USSID 220 (U//FOUO) SIGINT Dissemination: Tactical Electronic Intelligence (ELINT) Reporting
8. NSA/CSS Policy 11-9 NSA/CSS Support to Electronic Warfare and Joint Electromagnetic Spectrum Operations
9. USSID 315 (U//FOUO) Communication Emitter Notation Reporting System
10. USSID 306 (U//FOUO) SIGINT Signal Surveys
11. USSID 304 (U//FOUO) SIGINT in Support of Information Operations
12. USSID 217 (U//FOUO)Reporting of Threat Warning Information
13. USSID 125 (U//FOUO) Tactical SIGINT Data Format
14. MCRP 2-10B.1 Intelligence Preparation of the Battlefield/Battle Space (IPB)
JP 2-0 Joint Intelligence
Learning Aids: Flight Crew Checklist/ Local SOP, IBUG, TCAC Operators Guide
Units/Personnel (List specific units or personnel without which the event cannot be accomplished.)
Admin Instructions This event could be accomplished via a connected environment through GALE LITE, MIST, Wrangler etc with access to the national level feeds and PEOB. However, this event should be evaluated at the tactical level using POR equipment and tactical IBS/CIB feed over the ENTR and analyzed via GALE LITE on the TCAC, with a locally built collections database. Additional software suites such as ASPEN or other signals analysis tools may be used to analyze locally collected data.
The purpose of this event for a Marine to take a collected signal that is not identified but characterizes as a RADAR signal, via parametric data and measurable characteristics, and analyze the probable function of that signal based off those parameters, with the end goal of trying to identify and/or correlate to a known emitter or platform. This could be as simple as working to characterize an unidentified receipt from IBS/CIB feeds or working to characterize a live/raw signal in the EMS with the equipment sets they have available to them. It is important to note that the Marine should understand steps to perform with the data and notification if they are unable to identify the signal, once they have exhausted their local means; ie. pass that data up to higher for further investigation and analysis.

2631-INTL-2001: Maintain the parametric electronic order of battle (PEOB)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The ELINT Analyst will create, update, and maintain EOB to include current parametric data.

MOS PERFORMING: 2631

GRADES: LCPL, CPL, SGT, SSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given a currently-fielded SIGINT/EW system, a specific AOI, access to national/theater level databases, and publications

STANDARD: To ensure information derived from national, theater, and organic data, is related to unit specific mission, within a time line established by the commander, in accordance with the references.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Utilize database for emitter location.
3. Compile ELINT reporting.
4. Analyze ELINT data from reporting.
5. Create PEOB based on national, theater, and organic data.
6. Update PEOB based on national, theater, and organic data.
7. Submit anomalies for follow-on analysis.

REFERENCES: MCRP 2-10B.1 Intelligence Preparation of the Battlefield/Battlespace

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2631-INTL-2002: Conduct post-mission SIGINT/EW analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The individual will process raw information collected from SIGINT/EW platforms to produce intelligence to support MAGTF operations. This will result in parametric and location data for emitters.

MOS PERFORMING: 2631

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: MOJT

CONDITION: Given mission tasking, references, collected data, and a currently-fielded analysis and reporting system

STANDARD: To locate and identify emitters within a time limit established by the commander.

PERFORMANCE STEPS:

1. Review mission tasking.
2. Debrief aircrew.
3. Load mission on currently-fielded analysis and reporting system.
4. Analyze raw data.
5. Utilize appropriate databases to aid in emitter identification.
6. Utilize appropriate databases to aid in emitter location.
7. Correlate parametric data to emitter platforms.
8. Develop graphical depiction of emitter location.
9. Disseminate.

REFERENCES:

1. MCRP 2-10A.1 Signals Intelligence
2. MCRP 3-32D.1 Electronic Warfare
3. MCTP 2-10A MAGTF Intelligence Collection
4. USSIDS United States Signals Intelligence Directives

SIGINT T&R MANUAL

CHAPTER 11

MOS 2641 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 11

MOS 2641 INDIVIDUAL EVENTS

This chapter details the individual events that pertain to Cryptologic Language Analyst. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

11000. PURPOSE

11001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2641	Cryptologic Language Analyst

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
INTL	Intelligence

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
1000	Core Skills
2000	Core Plus Skills

11002. INDEX OF 2641 INDIVIDUAL EVENTS - 1000 LEVEL

2641-INTL-1001: Identify reportable information

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The individual will process foreign language communications to review raw or evaluated/minimized information and compare it against information requirements (IR) to recognize reportable information. When the Cryptologic Linguist recognizes reportable information, he or she will identify and report essential elements of information (EEIs). EEIs are the important facts such as who, what, when, where, why.

MOS PERFORMING: 2641

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, currently fielded SIGINT/EW equipment, lexical aids, available Human Language Technology (HLT) and foreign language communications, in a field, garrison, or simulated environment.

STANDARD: To identify Essential Elements of Information (EEIs), in a timeframe dictated by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Process communications of interest.
3. Conduct initial traffic analysis.
4. Identify language.
5. Identify dialect.
6. Identify gender.
7. Recognize threat warning information.
8. Recognize time sensitive information.
9. Report EEIs.

REFERENCES:
1. EO 12333 U.S. Intelligence Activities (As Amended)
2. MCRP 2-10A.1 Signals Intelligence
3. USSIDS United States Signals Intelligence Directives

2641-INTL-1002: Translate foreign language communications

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: The Cryptologic Linguist will translate foreign language communications into grammatically correct English. To translate is to produce a written version of foreign language communications in clear, concise, idiomatic English which conveys the meaning of the original text to the English language reader. A translation is not word-for-word, but it must provide a serviceable rendition of the text in a form of English that will be readily understood by an English reader who is familiar with neither the original text nor the language in which it was written.

MOS PERFORMING: 2641

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, currently fielded SIGINT/EW equipment, lexical aids, available Human Language Technology (HLT) and foreign language communications, in a field, garrison, or simulated environment.

STANDARD: To provide an English translation with 80% accuracy, within a time limit established by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Review foreign language communications.
3. Translate foreign language into English.

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. Target Language Lexical Aids Target Language Lexical Aids
3. USSID SP0101

2641-INTL-1003: Transcribe foreign language communications

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The Cryptologic Linguist will produce a transcript of foreign language communications in either the native writing system of that foreign language or a transliteration. A transcript is a verbatim record of spoken foreign language communications. A transliteration is using one writing system in place of another, for example, using a Roman script or other standardized, approved systems to write a language that uses a non-Roman script.

MOS PERFORMING: 2641

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, currently fielded SIGINT/EW equipment, lexical aids, available Human Language Technology (HLT) and foreign language communications, in a field, garrison, or simulated environment.

STANDARD: To provide a transcription with 80% accuracy, within a time limit established by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Review foreign language communications.
3. Transcribe foreign language communications into written form.

REFERENCES:
1. USSID AP2171 USSID AP2171
2. USSID SP0101

2641-INTL-1004: Gist foreign language communications

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The Cryptologic Linguist will produce a gist of foreign language communications. A gist is a short written statement of the vital information of a foreign language text. This gist will be produced in English. A gist is different than a summary, which focuses on all the essential elements of information and is written in narrative English.

MOS PERFORMING: 2641

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, currently fielded SIGINT/EW equipment, lexical aids, available Human Language Technology (HLT) and foreign language communications, in a field, garrison, or simulated environment.

STANDARD: To provide a gist within a time limit established by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Review foreign language communications.
3. Gist foreign language communications into written form.

REFERENCES:
1. USSID AP2171 USSID AP2171
2. USSID SP0101

2641-INTL-1005: Summarize foreign language communications

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The Cryptologic Linguist will produce a summary of foreign language communications. A summary is a short restatement of the main points of a foreign communication that incorporates and emphasizes the essential elements of information (EEI). The summary will be produced in narrative English. EEIs are the important facts such as who, what, when, where, why. A summary is different than a gist, which briefly describes the vital meaning of a foreign communication.

MOS PERFORMING: 2641

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, currently fielded SIGINT/EW equipment, lexical aids, available Human Language Technology (HLT) and foreign language communications, in a field, garrison, or simulated environment.

STANDARD: To provide a summary within 80% accuracy, within a time limit established by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Review foreign language communications.
3. Identify EEIs.
4. Produce summary.

REFERENCES:
1. EO 12333 U.S. Intelligence Activities (As Amended)
2. MCRP 2-10A.1 Signals Intelligence
3. Target Language Lexical Aids Target Language Lexical Aids
4. USSID SP0101

2641-INTL-1006: Use content analytics

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: Content analytics uses technology to facilitate the identification of relevant information, trends and relationships is large batches of data. The Cryptologic Linguist will use available content analytics to triage and prioritize language communications for processing. Triage allows the Cryptologic Linguist to save valuable time by quickly identifying and prioritizing foreign language communications with probable intelligence value for processing; triage minimizes time spent processing foreign language communications without probable intelligence value. Many content analytic tools are built with supervised machine learning, which requires the cryptologic linguist to provide feedback to the tool to improve the tools' accuracy.

MOS PERFORMING: 2641

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of content analytic technology, given mission tasking, currently fielded SIGINT/EW equipment and foreign language communications.

STANDARD: To prioritize foreign language communications for processing, in timeframe dictated by the commander.

PERFORMANCE STEPS:

1. Review mission tasking.
2. Determine relevant parameters to conduct content analytic query.
3. Use content analytics to triage foreign language communications.
4. Truth mark (provide feedback) information to verify accuracy or inaccuracy of results.
5. If inaccurate, provide correction or feedback to the content analytic tool.
6. Submit new terms to be recognized by the content analytic tool.
7. Prioritize communications of interest for processing.

REFERENCES:

1. EO 12333 U.S. Intelligence Activities (As Amended)
2. MCRP 2-10A.1 Signals Intelligence
3. Target Language Lexical Aids Target Language Lexical Aids
4. USSID AP2150 USSID AP2150
5. USSID AP2171 USSID AP2171
6. USSID SP0101

2641-INTL-1007: Use Human Language Technology (HLT)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The Cryptologic Linguist will apply Human Language Technology (HLT) to assist with foreign language communication processing. HLT consists of tools that assist the cryptologic linguist in processing foreign language communications. HLT tools may help with processing functions, including but not limited to, translation, transcription, language/dialect identification, voice identification or gender identification. HLT will not replace a cryptologic linguist, rather HLT assists the cryptologic linguist process foreign language communications and can save the cryptologic linguist valuable time. HLT outputs will not be 100% accurate. The cryptologic linguist will review all HLT outputs before accepting or rejecting suggestions made by HLT and incorporating HLT outputs into a product. The cryptologic linguist will perform quality control of any output provided by HLT tools. HLT tools are built with supervised machine learning, which requires the cryptologic linguist to provide feedback to the tool to improve the tools' accuracy.

MOS PERFORMING: 2641

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of available HLT resources, given mission tasking, currently fielded SIGINT/EW equipment, lexical aids and foreign language communications.

STANDARD: To process foreign language communications, in a time frame dictated by the commander.

PERFORMANCE STEPS:

1. Review mission tasking.
2. Apply HLT tools
3. Process communications of interest.
4. Truth mark (provide feedback) on HLT outputs including but not limited to: language, dialect, gender, speaker, terms
5. If applicable, update or correct (provide feedback) on HLT outputs including but not limited to: language, dialect, gender, speaker, terms
6. Complete translation, transcription, summary or gist using HLT suggestions.

REFERENCES:

1. EO 12333 U.S. Intelligence Activities (As Amended)
2. Target Language Lexical Aids Target Language Lexical Aids
3. USSID AP2150 USSID AP2150
4. USSID AP2171 USSID AP2171
5. USSID SP0101

11003. INDEX OF 2641 INDIVIDUAL EVENTS - 2000 LEVEL

2641-INTL-2001: Aggregate multiple foreign language communications

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

DESCRIPTION: The Cryptologic Linguist will provide a journalistic style summary in grammatically correct English of more than one related events of target language communications, incorporating and emphasizing EEIs to convey aggregate meaning of an activity or situation.

MOS PERFORMING: 2641

GRADES: LCPL, CPL, SGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given mission tasking, currently fielded SIGINT/EW equipment, lexical aids, available Human Language Technology (HLT), content analytics, and foreign language communications, in a field, garrison, or simulated environment.

STANDARD: To provide a journalistic style summary in English of related events, in timeframe dictated by the commander.

PERFORMANCE STEPS:
1. Review mission tasking.
2. Process communications of interest.
3. Conduct initial traffic analysis.
4. Identify related foreign language communications.
5. Aggregate information into a journalistic summary.

REFERENCES:
1. EO 12333 U.S. Intelligence Activities (As Amended)
2. MCRP 2-10A.1 Signals Intelligence
3. Target Language Lexical Aids Target Language Lexical Aids
4. USSID AP2150 USSID AP2150
5. USSID AP2171 USSID AP2171
6. USSID SP0101

2641-INTL-2002: Conduct quality control of language analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

DESCRIPTION: The Cryptologic Linguist conducts quality control of transcribed, translated, gisted and summarized material.

MOS PERFORMING: 2641

GRADES: CPL, SGT

INITIAL LEARNING SETTING: MOJT

CONDITION: With the aid of references, given mission tasking, lexical aids/software resources, cryptologic language material, and currently-fielded SIGINT/EW equipment.

STANDARD: To validate accuracy of material with at least 95% accuracy, within a time limit established by the commander.

PERFORMANCE STEPS:
1. Apply legal considerations.
2. Review material.
3. Correct material.
4. Provide feedback to original cryptologic language analyst.

REFERENCES:
1. EO 12333 U.S. Intelligence Activities (As Amended)
2. MCRP 2-10A.1 Signals Intelligence
3. Target Language Lexical Aids Target Language Lexical Aids
4. USSID AP2150 USSID AP2150
5. USSID AP2171 USSID AP2171
6. USSID SP0101

SIGINT T&R MANUAL

CHAPTER 12

MOS 2651 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 12

MOS 2651 INDIVIDUAL EVENTS

12000. PURPOSE. This chapter details the individual events that pertain to Intelligence Surveillance Reconnaissance (ISR) System Engineers. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

12001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2651	ISR Systems Engineer

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
DATA	Data Intelligence
INCA	Intelligence Communications Architecture
NADM	Network Administration

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
1000	Core Skills
2000	Core Plus Skills

12002. INDEX OF 2651 INDIVIDUAL EVENTS

12003. 2651 INDIVIDUAL EVENTS

2651-DATA-1001: Administer a database

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

DESCRIPTION: Marine will conduct database administration functions in support of intelligence operations.

MOS PERFORMING: 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, mission tasking, a data flow management framework, authorization, permissions, appropriate hardware and software.

STANDARD: To provide database access across an intelligence network.

PERFORMANCE STEPS:
1. Conduct mission analysis.
2. Evaluate resources.
3. Determine data injects.
4. Select approved hardware.
5. Select approved software.
6. Configure schema.
7. Test the database.
8. Build accounts, if applicable.
9. Conduct backups.
10. Apply patches.
11. Conduct account maintenance.
12. Troubleshoot, as required.

REFERENCES:
1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan

2. Army Data Strategy Army Data Strategy, Office of the Army Chief Information Officer/G-6
3. DOD 5200.1, Vol 3 Protection of classified information
4. DoDD 8140.01 Cyberspace Workforce Management
5. ISBN-13: 978-0735666054 Training Kit (Exam 70-461) Querying Microsoft SQL Server 2012 (MCSA)
6. ISBN-13: 978-0735666078 Training Kit (Exam 70-462) Administering Microsoft SQL Server 2012 Databases (MCSA)
7. ISR Operations Marine Corps Concept for Intelligence Reconnaissance (ISR) Operations
8. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0
9. MCISRE IA Strategy MCISRE Information Architecture Strategy
10. MCO 5231.3 Marine Corps Data Strategy
11. SECNAVINST 5239.3B DEPARTMENT OF THE NAVY INFORMATION ASSURANCE POLICY 17 June 2009

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Microsoft SQL, MCSA, and/or comparable applicable commercial database training/certification.

2651-DATA-1002: Employ data flow management framework

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Marines will approach systems, communications, and technology with a targeted focus on data flow between multiple points. Communication fundamentals were previously taught with a networking foundation, illustrating connectivity as the leverage point between success and failure. The maturation of signal flow through circuit traffic has evolved into a realization that data lives, travels, replicates, and coalesce within several passive and active environments. Each environment requires a management framework to navigate.

MOS PERFORMING: 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, mission tasking, authorization, permissions, appropriate hardware and software.

STANDARD: To provide the seamless aggregation of intelligence information.

PERFORMANCE STEPS:
1. Examine external data sources.
2. Examine internal data sources.
3. Evaluate dissemination means.

4. Analyze data traffic flow.
5. Aggregate intelligence data.
6. Employ data science principles.
7. Configure autonomous services.
8. Build data flow management framework.

REFERENCES:

1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan
2. Army Data Strategy Army Data Strategy, Office of the Army Chief Information Officer/G-6
3. ISBN-13: 978-0615724997 A Simple Introduction to Data Science
4. ISBN-13: 978-1603580557 Thinking in Systems: A Primer
5. ISBN-13: 978-1603582582 The Systems Thinking Playbook: Exercises to Stretch and Build Learning and Systems Thinking Capabilities
6. ISR Operations Marine Corps Concept for Intelligence Reconnaissance (ISR) Operations
7. JP 2-01 Joint and National Intelligence Support to Military Operations
8. JP 2-02 National Intelligence Support to Joint Operations
9. JP 6-0 Joint Communications System
10. MCEN Private Cloud Marine Corps Private Cloud Computing Environment Strategy May 2012
11. MCEN Unification Plan Marine Corps Enterprise Network Unification Campaign Plan
12. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0
13. MCISRE IA Strategy MCISRE Information Architecture Strategy
14. MCO 5231.3 Marine Corps Data Strategy
15. MCTP 2-10A MAGTF Intelligence Collection
16. MCTP 2-10B MAGTF Intelligence Production and Analysis
17. MCTP 2-10C Marine Air-Ground Task Force Intelligence Dissemination
18. MITRE Data Management Data Management and Program Governance for the MCISRE, MITRE Study Report

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2651-INCA-1001: Conduct system administration

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

DESCRIPTION: The Marine will administer systems, peripherals, hardware and software, on both Microsoft Windows and UNIX platforms, for client devices in accordance with appropriate directives and orders.

MOS PERFORMING: 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, mission tasking, authorization, permissions, appropriate hardware and software.

STANDARD: To ensure reliable data processing and communications within existing security policies and standards within the time allotted by the commander.

PERFORMANCE STEPS:
1. Maintain data integrity.
2. Manage hardware.
3. Manage software.
4. Manage peripherals.
5. Utilize OS commands.
6. Troubleshoot, as required.

REFERENCES:
1. DoDD 8140.01 Cyberspace Workforce Management
2. DODIIS DJSIG DOD Intelligence Information System (DODIIS) Joint Security Implementation Guide (DJSIG) June 2011
3. ISBN-13: 978-1118324059 CompTIA A+ Complete Study Guide: Exams 220-801 and 220-802
4. ISBN-13: 978-1118531747 CompTIA Linux+ Study Guide: Exams LX0-101 and LX0-102
5. MC ECSD 024 Cybersecurity Workforce Improvement Program
6. MCEN MCEN Information Security Policy
7. MCIP 3-40G.2i Waste Management for Deployed Forces
8. MCO 5239.2B Marine Corps Cybersecurity
9. SECNAVINST 5239.3B DEPARTMENT OF THE NAVY INFORMATION ASSURANCE POLICY 17 June 2009
10. The National CyberSecurity Workforce Framework (March 2013) The National CyberSecurity Workforce Framework (March 2013)

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: A+, Linux/Unix, and appropriate commercial operating system certifications.

2651-INCA-1002: Implement Technical Surveillance Counter Measures (TSCM)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

DESCRIPTION: The Marine will apply TSCM standards to network construction, to include but not limited to, adherence to TEMPEST regulations, support to Electronic Protect and Signature Management, and compliance to any associated intelligence policy driven computer security requirements.

MOS PERFORMING: 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, networks of multiple classifications, current regulations, and a secure environment.

STANDARD: To setup system components within a secure network.

PERFORMANCE STEPS:
1. Examine environment.
2. Evaluate resources.
3. Develop strategy.
4. Employ counter measures.
5. Reexamine environment.

REFERENCES:
1. DOD Manual 5200.01 Volume 3 DOD IS Program: Protection of Classified Information
2. DoD S-5240.05-M-1 Conduct of Technical Surveillance Countermeasures (TSCM) Vol I
3. DoDD 8140.01 Cyberspace Workforce Management
4. ICD 705 Sensitive Compartmented Information Facilities
5. ICD 705.1 Physical Security Standards for Sensitive Compartmented Information Facilities
6. MCWP 3-32B Operations Security (OPSEC)

2651-INCA-1003: Administer a server

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 3 months

READINESS-CODED: NO

DESCRIPTION: Marine must administer a variety of servers, on both Microsoft Windows and UNIX platforms, to support multiple functions and other associated tasks, to include but not limited to Mail, Web, Print, DNS, FTP, and File services.

MOS PERFORMING: 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, mission tasking, a data flow management framework, authorization, permissions, appropriate hardware, software, and network.

STANDARD: Establish fully functional services across the network within the time allotted by the commander.

PERFORMANCE STEPS:
1. Conduct mission analysis.
2. Examine classification caveats.
3. Evaluate resources.

4. Install hardware.
5. Install software.
6. Configure server.
7. Manage domain.
8. Manage accounts.
9. Maintain server.
10. Manage services.
11. Troubleshoot, as required.

REFERENCES:
1. DoDD 8140.01 Cyberspace Workforce Management
2. ISBN-13: 978-0735710870 CompTIA Server+ Study Guide
3. MCISRE IA Strategy MCISRE Information Architecture Strategy
4. MCO 5239.2B Marine Corps Cybersecurity
5. SECNAVINST 5239.3B DEPARTMENT OF THE NAVY INFORMATION ASSURANCE POLICY 17 June 2009

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Microsoft Certified Solutions Associate (MCSA), Linux/Unix, and appropriate commercial certifications.

2651-INCA-1004: Conduct high bandwidth satellite communications

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

MOS PERFORMING: 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, mission tasking, satellite communications equipment, authorized satellite access, option file, and cryptographic materials.

STANDARD: To maintain persistent high bandwidth communications in support of intelligence operations in the time allotted by the commander.

PERFORMANCE STEPS:
1. Conduct mission analysis.
2. Evaluate resources.
3. Ensure accountability of all components.
4. Conduct a site survey.
5. Submit support requests to external agencies as required.
6. Configure satellite earth terminals.
7. Establish communications.
8. Perform Quality of Service assessment.
9. Troubleshoot, as required.
10. Implement operational maintenance.

REFERENCES:
1. DISAC 310-70-1 Defense Information Systems Agency DISA Circular (DISAC) 310-70-1* (April 21, 2012)
2. MARADMIN 0054/09 INMARSAT Mobile Satellite Services USMC Policy and Procedures (MARADMIN 0054/09-January 28, 2009)
3. MARADMIN 398/14 Marine Corps Centralized Commercial Bandwidth Initiative (MC3B) Description and Procedures (MARADMIN 398/14-August 12, 2014)

2651-INCA-1005: Configure machine-only intelligence networks

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

DESCRIPTION: Marines will configure services on meshed Intelligence, Surveillance, and Reconnaissance networks using appropriate sensors, protocols, ports, services, and Internet-of-Things (IoT) methodologies, in direct support to tactical cyber and electronic warfare concepts.

MOS PERFORMING: 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, mission tasking, a data flow management framework, authorization, access, permissions, and equipment.

STANDARD: To establish communications between devices within an intelligence network in the time allotted by the commander.

PERFORMANCE STEPS:
1. Examine internal infrastructure.
2. Administer sensors.
3. Configure interfaces.
4. Configure protocols.
5. Connect devices.
6. Test connectivity.
7. Perform quality of service check.
8. Troubleshoot, as required.

REFERENCES:
1. DISA STIGS DISA Security Technical Implementation Guides
2. ISBN-13: 978-1118789704 CCNA Routing and Switching Study Guide
3. ISBN-13: 978-1587144561 IoT Fundamentals: Networking Technologies, Protocols, and Use Cases for the Internet of Things
4. JP 6-01 Joint Electromagnetic Spectrum Management Operations
5. MCO 3500.27C Risk Management
6. MCO 5230.20 Marine Corps Enterprise Architecture
7. MCO 5239.2B Marine Corps Cybersecurity
8. MCTP 2-10A MAGTF Intelligence Collection
9. MCTP 2-10B MAGTF Intelligence Production and Analysis

10. MCTP 2-10C Marine Air-Ground Task Force Intelligence Dissemination

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2651-NADM-1001: Build a network

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 3 months

READINESS-CODED: NO

DESCRIPTION: The Marine must be able to establish various networks across multiple domains, environments, and technology.

MOS PERFORMING: 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, mission tasking, authorization, permissions, appropriate hardware and software.

STANDARD: To provide reliable communications within existing security policies and standards within the time allotted by the commander.

PERFORMANCE STEPS:
1. Conduct mission analysis.
2. Determine requirements.
3. Assess resources.
4. Configure hardware as applicable.
5. Perform Internet Protocol (IP) addressing as applicable.
6. Connect Local Area Network (LAN)/Wide Area Network (WAN) as applicable.
7. Verify connectivity.
8. Troubleshoot as required.

REFERENCES:
1. DoDD 8140.01 Cyberspace Workforce Management
2. DODI 8410.03 Network Management
3. ICD 703 Protection of Classified National Intelligence, Including Sensitive Compartmented Information
4. ISBN-13: 978-1118137543 CompTIA Network+ Study Guide
5. MCEN Unification Plan Marine Corps Enterprise Network Unification Campaign Plan
6. MCISRE IA Strategy MCISRE Information Architecture Strategy
7. MCISR-E Roadmap Marine Corps Intelligence Surveillance and Reconnaissance Enterprise Roadmap
8. MCRP 2-10A.1 Signals Intelligence
9. SECNAVINST 5239.3B DEPARTMENT OF THE NAVY INFORMATION ASSURANCE POLICY 17 June 2009

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Network +, CCNA, and comparable commercial networking training/certification.

2651-NADM-1002: Administer a network

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 3 months

READINESS-CODED: NO

MOS PERFORMING: 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, mission tasking, a data flow management framework, authorization, permissions, appropriate hardware, software, and network.

STANDARD: To ensure reliable data processing and communications within existing security policies and standards within the time allotted by the commander.

PERFORMANCE STEPS:

1. Conduct mission analysis.
2. Manage network file systems.
3. Ensure network data integrity.
4. Administer network services as required.
5. Configure network hardware as applicable.
6. Configure video/voice services as required.
7. Utilize remote access.
8. Troubleshoot as required.

REFERENCES:

1. DoDD 8140.01 Cyberspace Workforce Management
2. DODI 8410.03 Network Management
3. DODIIS DJSIG DOD Intelligence Information System (DODIIS) Joint Security Implementation Guide (DJSIG) June 2011
4. ISBN-13: 978-1118137543 CompTIA Network+ Study Guide
5. MCEN Private Cloud Marine Corps Private Cloud Computing Environment Strategy May 2012
6. MCEN Unification Plan Marine Corps Enterprise Network Unification Campaign Plan
7. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0
8. MCISRE IA Strategy MCISRE Information Architecture Strategy
9. SECNAVINST 5239.3B DEPARTMENT OF THE NAVY INFORMATION ASSURANCE POLICY 17 June 2009

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Network+, Cisco Certified Network Associate (CCNA), and appropriate commercial operating system and network device certifications.

2651-NADM-1003: Conduct network security

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

DESCRIPTION: The Marine will perform network security tasks on an intelligence network in order to adhere to cybersecurity requirements, policy and regulations as mandated by domain Authorizing Official (AO) or Designated Authorizing Official (DAO).

MOS PERFORMING: 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, mission tasking, authorization, permissions and access to an intelligence network.

STANDARD: To maintain network confidentiality, integrity, and availability within existing security policies and standards.

PERFORMANCE STEPS:
1. Configure network devices.
2. Configure Open Source Intelligence (OSINT) network connection.
3. Configure firewall.
4. Configure access controls.
5. Configure auditing.
6. Employ countermeasures.
7. Install security patches.
8. Review security logs.
9. Identify threats.
10. Report threats.

REFERENCES:
1. DODD 5105.21-M-1 Sensitive Compartmented Information (SCI) Security Manual, Administrative Security
2. DoDD 8140.01 Cyberspace Workforce Management
3. DoDI 3115.12 OSINT Open Source Intelligence (OSINT)
4. DODIIS DJSIG DOD Intelligence Information System (DODIIS) Joint Security Implementation Guide (DJSIG) June 2011
5. ICD 503 Intelligence Community Information Technology Systems Security Risk Management, Certification and Accreditation
6. ISBN-13: 978-1118875070 ComTIA Security+ Study Guide
7. MC ECSD 020 Information Assurance Vulnerability Management Program (IAVM)
8. MCRP 2-10A.3 Open Source Intelligence
9. NIST SP 800-92 Guide to Computer Security Log Management
10. SECNAVINST 5239.3B DEPARTMENT OF THE NAVY INFORMATION ASSURANCE POLICY 17 June 2009

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Security +, and/or applicable network device certifications.

2651-NADM-1004: Configure routing on intelligence networks

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

READINESS-CODED: NO

DESCRIPTION: The Marine will conduct routing services between networks, and switching within a network, using appropriate protocols, ports, services, and technology.

MOS PERFORMING: 2651

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, mission tasking, a data flow management framework, authorization, access, permissions, and equipment.

STANDARD: To establish communications between intelligence networks in the time required by the commander.

PERFORMANCE STEPS:
1. Examine internal infrastructure.
2. Examine adjacent infrastructure.
3. Configure interfaces.
4. Configure protocols.
5. Connect devices.
6. Test connectivity.
7. Perform quality of service check.
8. Troubleshoot, as required.

REFERENCES:
1. DoDI 8550.01 DoD Internet Services and Internet-Based Capabilities (September 11, 2012)
2. ISBN-13: 978-1118137543 CompTIA Network+ Study Guide
3. ISBN-13: 978-1118789704 CCNA Routing and Switching Study Guide
4. MC ECSD 024 Cybersecurity Workforce Improvement Program
5. MCO 5239.2B Marine Corps Cybersecurity
6. SCI 5105.21 Sensitive Compartmented Information (SCI) Administrative Security Manual: Administration of Information and Information Systems Security 5105.21, Volume 1 (October 19, 2012)

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Network +, CCNA, and comparable commercial networking training/certification.

2651-INCA-2001: Conduct advanced transmission operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Marines exposed to transmission requirements must understand to how leverage organic and non-organic resources to best support their intelligence communications plan. This will include tactical radio and satellite communication technologies.

MOS PERFORMING: 2651

GRADES: LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, authorization, permissions, planning documents, and planning tools.

STANDARD: To support the intelligence communications plan.

PERFORMANCE STEPS:
1. Identify communication node locations.
2. Analyze plan against resources.
3. Identify safety hazards.
4. Install system.
5. Manage encryption.
6. Configure system for advanced operations.
7. Conduct communication checks.
8. Mesh network, as required.

REFERENCES:
1. EKMS-1 (series) EKMS Policy and Procedures for Navy EKMS Tiers 2 & 3
2. JP 2-01 Joint and National Intelligence Support to Military Operations
3. JP 6-0 Joint Communications System
4. MCISRE IA Strategy MCISRE Information Architecture Strategy
5. MCRP 3-30B.2 MAGTF Communications System

2651-INCA-2002: Bridge communication pathways

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Within the function of communications planning, a 2651 must establish primary, secondary, and tertiary pathways to sustain the continuity of services. Examples include, but are not limited to, network to network and ship to shore communications. This also includes tactical SCI enterprise systems provided by the SCI Enterprise Office (SEO), and support agencies, in support of Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE).

MOS PERFORMING: 2651

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, authorization, permissions, currently fielded equipment, access to intelligence networks, and working in an amphibious, fixed, or mobile site.

STANDARD: To ensure reliability and efficiency across converged networks.

PERFORMANCE STEPS:

1. Determine bandwidth requirements.
2. Establish primary logical/physical pathway.
3. Establish Quality of Service (QoS) needs.
4. Configure Video/Voice priorities.
5. Establish alternate logical/physical pathways.
6. Tether remote systems to core infrastructure.
7. Configure connections to other agency/national intelligence networks.
8. Configure connections to adjacent service components as required.
9. Configure connections to coalition/partner services as required.
10. Coordinate shipboard communications support.

REFERENCES:

1. DoDD 8140.01 Cyberspace Workforce Management
2. ICD 503 Intelligence Community Information Technology Systems Security Risk Management, Certification and Accreditation
3. ICD 703 Protection of Classified National Intelligence, Including Sensitive Compartmented Information
4. ICD 705 Sensitive Compartmented Information Facilities
5. Joint DoDDIIS/Cryptologic SCI Information Systems Security Standards
6. JP 2-01 Joint and National Intelligence Support to Military Operations
7. JP 6-0 Joint Communications System
8. MCISRE IA Strategy MCISRE Information Architecture Strategy
9. MCISR-E Roadmap Marine Corps Intelligence Surveillance and Reconnaissance Enterprise Roadmap
10. SECNAVINST 5239.3B DEPARTMENT OF THE NAVY INFORMATION ASSURANCE POLICY 17 June 2009

2651-PLAN-2001: Develop an intelligence communications plan

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: Marines are responsible for developing intelligence communications plans within the strategic planning portion of mission analysis. Identifying resource requirements, designing an information architecture, or node, and connecting that node to the intelligence enterprise, requires knowledge and understanding of technology, networks, priorities, intelligence needs, and capabilities.

MOS PERFORMING: 2651, 2659

GRADES: SSGT, GYSGT, MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, technological resources, and skilled personnel.

STANDARD: To support intelligence requirements within the intelligence information environment.

PERFORMANCE STEPS:

1. Analyze higher headquarters communications strategy.
2. Develop a radio network plan.
3. Develop a voice and video network plan.
4. Develop a data network plan.
5. Submit communications system requirements to higher headquarters.
6. Determine communications trunk installation/restoration priorities.
7. Determine communications circuit installation/restoration priorities.
8. Determine intelligence dissemination requirements.
9. Determine intelligence sharing requirements.
10. Disseminate the intelligence communications plan.

REFERENCES:

1. CJCSI 6510.01E Information Assurance (IA) and Computer Network Defense (CND)
2. CJCSM 6231 SERIES Manual for Employing Joint Tactical Communication
3. CJCSM 6231.04B Manual for Employing Tactical Communications
4. JP 2-02 National Intelligence Support to Joint Operations
5. JP 6-0 Joint Communications System
6. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0
7. MCISRE IA Strategy MCISRE Information Architecture Strategy
8. MCRP 2-10A.1 Signals Intelligence
9. MCRP 3-30B.2 MAGTF Communications System
10. MCTP 2-10C Marine Air-Ground Task Force Intelligence Dissemination
11. MCWP 2-10 Intelligence Operations
12. MCWP 3-32B Operations Security (OPSEC)
13. MCWP 6-22 Communications and Information Systems

2651-PLAN-2002: Conduct a site survey for a multi-mode intelligence communications site

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Experts performing must comprehend the fundamentals of location selection, by considering environmental and terrain impacts to SATCOM terminals, RF arrays, and differing intelligence communications network equipment, with emphasis on connectivity, signature management and data sharing.

MOS PERFORMING: 2651, 2659

GRADES: SSGT, GYSGT, MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, list of currently fielded equipment, and personnel.

STANDARD: To mitigate risk, improve efficiency, and select a reliable intelligence communications site in the time allotted by the commander.

PERFORMANCE STEPS:

1. Identify mission requirements.
2. De-conflict satellite azimuth/elevation.
3. De-conflict RF.
4. De-conflict electromagnetic interference (EMI).
5. De-conflict space requirements.
6. Identify clear-sky obstructions to selected satellite.
7. Identify power requirements.
8. Determine environmental requirements.
9. Determine signature management considerations.
10. Draw a layout of the site.
11. Brief team members on the execution of the plan.

REFERENCES:

1. ICD 703 Protection of Classified National Intelligence, Including Sensitive Compartmented Information
2. ICD 705 Sensitive Compartmented Information Facilities
3. JP 6-0 Joint Communications System
4. MCRP 3-30B.2 MAGTF Communications System
5. MCTP 2-10A MAGTF Intelligence Collection
6. MCTP 2-10B MAGTF Intelligence Production and Analysis
7. MCTP 2-10C Marine Air-Ground Task Force Intelligence Dissemination

SIGINT T&R MANUAL

CHAPTER 13

MOS 2652 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 13

MOS 2652 INDIVIDUAL EVENTS

13000. PURPOSE. This chapter details the individual events that pertain to Intelligence Data Engineers. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

13001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2652	Intelligence Data Engineer

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
DATA	Data Intelligence

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
2000	Core Plus Skills

13002. INDEX OF 2652 INDIVIDUAL EVENTS

13003. 2652 INDIVIDUAL EVENTS

2652-DATA-2001: Conduct distributed database administration

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The Marine will administer "big data" frameworks across a distributed data infrastructure within the intelligence enterprise. Exposure to Intel and non-Intel data clusters that reside in a distributed file system requires in depth knowledge of cloud computing resources. Marines will be exposed to both commercial and military technologies.

MOS PERFORMING: 2652

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, a knowledge management plan, and a data flow management framework.

STANDARD: To enable intelligence support to the information operations environment as directed by the commander.

PERFORMANCE STEPS:
1. Evaluate data platform framework.
2. Manage distributed file system.
3. Configure data clusters.
4. Configure real time processing.
5. Manage cloud resources.
6. Design data queries.
7. Conduct rapid response actions.
8. Evaluate continuity of operations.
9. Archive data for retrieval.

REFERENCES:
1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan
2. Army Data Strategy Army Data Strategy, Office of the Army Chief Information Officer/G-6
3. ICD 501 Discovery and Dissemination or Retrieval of Information within the Intelligence Community
4. ISBN-13: 978- 3319500164 Introduction to Data Science: A Python Approach to Concepts, Techniques and Applications
5. ISBN-13: 978-1118661468 Data Smart: Using Data Science to Transform Information into Insight
6. ISBN-13: 978-1608078769 Activity-based Intelligence: Principles and Applications
7. JP 2-01 Joint and National Intelligence Support to Military Operations
8. JP 2-02 National Intelligence Support to Joint Operations
9. MCISRE IA Strategy MCISRE Information Architecture Strategy
10. MCO 5231.3 Marine Corps Data Strategy
11. MITRE Data Management Data Management and Program Governance for the MCISRE, MITRE Study Report

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Cloudera Certified Associate (CCA) Spark and Hadoop Developer, Administrator, and Data Analyst, Cloudera Certified Professional (CCP) Data Engineer, to include any appropriate industry related certifications.

2652-DATA-2002: Employ data engineering techniques

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Marines will be faced with structured, unstructured, and semi-structured data sets, which will require various techniques for feature engineering, data cleansing, data wrangling, data conditioning, and data warehousing. Machine learning tools must be utilized to support the cognification and automation features toward many of these functions.

MOS PERFORMING: 2652

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, a knowledge management plan, and a data flow management framework.

STANDARD: To enable intelligence support to the information operations environment as directed by the commander.

PERFORMANCE STEPS:
1. Analyze data source.
2. Calculate data volume.
3. Calculate data velocity.
4. Calculate data variety.
5. Calculate data veracity.
6. Calculate data value.
7. Conduct data normalization procedures.
8. Conduct data conditioning procedures.
9. Conduct data-fication operations.
10. Conduct assimilation operations.
11. Conduct cognification operations.
12. Employ machine-learning tools.
13. Optimize data environment.
14. Report results.

REFERENCES:
1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan
2. Army Data Strategy Army Data Strategy, Office of the Army Chief Information Officer/G-6
3. ICD 501 Discovery and Dissemination or Retrieval of Information within the Intelligence Community

4. ISBN-13: 978- 3319500164 Introduction to Data Science: A Python Approach to Concepts, Techniques and Applications
5. ISBN-13: 978-1118661468 Data Smart: Using Data Science to Transform Information into Insight
6. ISBN-13: 978-1608078769 Activity-based Intelligence: Principles and Applications
7. JP 2-01 Joint and National Intelligence Support to Military Operations
8. JP 2-02 National Intelligence Support to Joint Operations
9. MCISRE IA Strategy MCISRE Information Architecture Strategy
10. MCO 5231.3 Marine Corps Data Strategy
11. MITRE Data Management Data Management and Program Governance for the MCISRE, MITRE Study Report

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: The SAS Certified Big Data Professional, SAS Certified Advance Analytics Professional, SAS Certified Data Scientist, Cloudera Certified Professional: Data Scientist, Cloudera Certified Professional: Data Engineer, Microsoft Professional Program Certificate in Data Science, and EMC Proven Professional Data Scientist Associate certification criteria applies.

2652-DATA-2003: Conduct data intelligence analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The Marine will support the intelligence production cycle by leveraging big data analytics methods and techniques to extract insights from intelligence data. Domain expertise in intelligence collections, analysis and dissemination enables data analytics, signature management, and activity-based intelligence.

MOS PERFORMING: 2652

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, a knowledge management plan, and a data flow management framework.

STANDARD: To enable intelligence support to the information operations environment as directed by the commander.

PERFORMANCE STEPS:
1. Conduct mission analysis.
2. Collect relevant data.
3. Conduct data preprocessing.
4. Conduct quantitative analysis.
5. Develop predictive models.
6. Conduct predictive analysis.

7. Develop appropriate visualizations.
8. Report relevant insights.

REFERENCES:

1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan
2. Army Data Strategy Army Data Strategy, Office of the Army Chief Information Officer/G-6
3. ICD 501 Discovery and Dissemination or Retrieval of Information within the Intelligence Community
4. ISBN-13: 978- 3319500164 Introduction to Data Science: A Python Approach to Concepts, Techniques and Applications
5. ISBN-13: 978-1118661468 Data Smart: Using Data Science to Transform Information into Insight
6. ISBN-13: 978-1608078769 Activity-based Intelligence: Principles and Applications
7. JP 2-01 Joint and National Intelligence Support to Military Operations
8. JP 2-02 National Intelligence Support to Joint Operations
9. MCISRE IA Strategy MCISRE Information Architecture Strategy
10. MCO 5231.3 Marine Corps Data Strategy

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: The SAS Certified Big Data Professional, SAS Certified Advance Analytics Professional, SAS Certified Data Scientist, Cloudera Certified Professional: Data Scientist, MCSE: Data Management and Analytics, EMC Data Science Certificate, and EMC Proven Professional Data Scientist Associate criteria apply.

2652-DATA-2004: Develop data intelligence reports

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The Marine will follow the intelligence cycle to generate intelligence products on gathered, collected, mined, and resourced data. Data intelligence requires comprehensive immersion into the data environment, to best support the intelligence needs in real time. This includes an assessment of its health, and how the relationship, interactions, and dependencies impact the overall data ecosystem.

MOS PERFORMING: 2652

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, a knowledge management plan, and a data flow management framework.

STANDARD: To enable intelligence support to the information operations environment as directed by the commander.

PERFORMANCE STEPS:

1. Review information operations environment.
2. Assess reporting requirements.
3. Generate a data source validation report.
4. Generate a data usage report.
5. Generate an enterprise knowledge report.
6. Evaluate data environment against intelligence picture.

REFERENCES:

1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan
2. Army Data Strategy Army Data Strategy, Office of the Army Chief Information Officer/G-6
3. ICD 501 Discovery and Dissemination or Retrieval of Information within the Intelligence Community
4. ISBN-13: 978- 3319500164 Introduction to Data Science: A Python Approach to Concepts, Techniques and Applications
5. ISBN-13: 978-1118661468 Data Smart: Using Data Science to Transform Information into Insight
6. ISBN-13: 978-1608078769 Activity-based Intelligence: Principles and Applications
7. JP 2-01 Joint and National Intelligence Support to Military Operations
8. JP 2-02 National Intelligence Support to Joint Operations
9. MCISRE IA Strategy MCISRE Information Architecture Strategy
10. MCO 5231.3 Marine Corps Data Strategy
11. MITRE Data Management Data Management and Program Governance for the MCISRE, MITRE Study Report

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: The SAS Certified Advanced Analytics Professional, SAS Certified Data Scientist, Cloudera Certified Professional: Data Scientist, Microsoft Professional Program Certificate in Data Science, MCSE: Business Intelligence, and MCSE: Data Management and Analytics certification criteria applies.

2652-DATA-2005: Provide data visualization in web services

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Within data analytics and engineering, a key principle of communicating results involves data visualization techniques. Marines with these skills are versed in different techniques and visualization tools to illustrate the assessments within their data intelligence products.

MOS PERFORMING: 2652

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, a knowledge management plan, and a data flow management framework.

STANDARD: To enable intelligence support to the information operations environment as directed by the commander.

PERFORMANCE STEPS:
1. Evaluate data visualization tools.
2. Provide data visualization.
3. Manage application connections to databases.
4. Configure data transfer strategies.
5. Establish trusted agent functions.

REFERENCES:
1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan
2. Army Data Strategy Army Data Strategy, Office of the Army Chief Information Officer/G-6
3. ICD 501 Discovery and Dissemination or Retrieval of Information within the Intelligence Community
4. ISBN-13: 978- 3319500164 Introduction to Data Science: A Python Approach to Concepts, Techniques and Applications
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7. JP 2-01 Joint and National Intelligence Support to Military Operations
8. JP 2-02 National Intelligence Support to Joint Operations
9. MCISRE IA Strategy MCISRE Information Architecture Strategy
10. MCO 5231.3 Marine Corps Data Strategy
11. MITRE Data Management Data Management and Program Governance for the MCISRE, MITRE Study Report

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: The SAS Certified Data Scientist, Cloudera Certified Professional: Data Scientist, Microsoft Professional Program Certificate in Data Science, MCSE: Business Intelligence, MCSE: Data Management and Analytics, EMC Data Science Certificate certification criteria applies.

2652-DATA-2006: Conduct machine learning model analysis

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: The Marine will administer databases and be responsible for data engineering in environments with numerous deployed machine learning models that perform various functions. These models require regular analysis, monitoring and fine-tuning to ensure adequate precision and effectiveness for targeted output.

MOS PERFORMING: 2652

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, a knowledge management plan, and a data flow management framework.

STANDARD: To enable intelligence support to the information operations environment as directed by the commander.

PERFORMANCE STEPS:
1. Assess deployed machine learning models.
2. Analyze precision of deployed models.
3. Analyze effectiveness of deployed models.
4. Assess alternative machine learning algorithms.
5. Fine-tune machine learning models.
6. Deploy updated machine learning models.

REFERENCES:
1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan
2. Army Data Strategy Army Data Strategy, Office of the Army Chief Information Officer/G-6
3. ICD 501 Discovery and Dissemination or Retrieval of Information within the Intelligence Community
4. ISBN-13: 978- 3319500164 Introduction to Data Science: A Python Approach to Concepts, Techniques and Applications
5. ISBN-13: 978-1118661468 Data Smart: Using Data Science to Transform Information into Insight
6. ISBN-13: 978-1608078769 Activity-based Intelligence: Principles and Applications
7. JP 2-01 Joint and National Intelligence Support to Military Operations
8. JP 2-02 National Intelligence Support to Joint Operations
9. MCISRE IA Strategy MCISRE Information Architecture Strategy
10. MCO 5231.3 Marine Corps Data Strategy
11. MITRE Data Management Data Management and Program Governance for the MCISRE, MITRE Study Report

SUPPORT REQUIREMENTS:

ORDNANCE NOTES: N/A

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS: Cloudera Certified Associate (CCA) Spark and Hadoop Developer, Administrator, and Data Analyst, Cloudera Certified Professional (CCP) Data Engineer, to include any appropriate industry related certifications.

SIGINT T&R MANUAL

CHAPTER 14

MOS 2653 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 14

MOS 2653 INDIVIDUAL EVENTS

14000. PURPOSE. This chapter details the individual events that pertain to Intelligence Software/Security Engineers. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

14001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2653	Intelligence Software/Security Engineer

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
DATA	Data Intelligence
SCTY	Security

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
2000	Core Plus Skills

14002. INDEX OF 2653 INDIVIDUAL EVENTS

14003. 2653 INDIVIDUAL EVENTS

2653-DATA-2001: Implement software development life cycle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Marines within this work role will apply the software development life cycle (SDLC) to best manage resources against time and operational requirements as a part of application design. All applications must tie to an intelligence need on an approved platform.

MOS PERFORMING: 2653

GRADES: LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, authorization, a software development kit, an approved platform, and access to an intelligence network or system.

STANDARD: To deliver critical software-defined resources that increase intelligence production speed for the operational commander.

PERFORMANCE STEPS:

1. Conduct mission analysis.
2. Analyze requirements.
3. Design application.
4. Run application.
5. Test application against requirements.
6. Deploy application across platform.
7. Conduct application maintenance.

REFERENCES:

1. CJCSI 3170.01 Joint Capabilities Integration and Development System (JCIDS) Instruction Manual
2. DoDD 8140.01 Cyberspace Workforce Management
3. ISBN-13: 978-0789757616 Learn to Code Absolute Beginner's Guide
4. ISBN-13: 978-1840786422 Coding for Beginners in Easy Steps: Basic Programming for All Ages
5. ISR Operations Marine Corps Concept for Intelligence Reconnaissance (ISR) Operations
6. JP 2-01 Joint and National Intelligence Support to Military Operations
7. JP 2-02 National Intelligence Support to Joint Operations
8. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0
9. MCISRE IA Strategy MCISRE Information Architecture Strategy
10. SP 800-124 Rev 1 Guidelines for Managing the Security of Mobile Devices in the Enterprise

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS:

SAS Certified Base Programmer, SAS Certified Advanced Programmer, SAS Certified Data Integration Developer, MCSD Microsoft Certified Solutions Develop App Builder, MTA Microsoft Technology Associate: HTML5 App Development, CSSLP: Certified Secure Software Lifecycle Professional, CLA C Programming Language Certified Associate Certification
CLP C Certified Professional Programmer, Oracle Certified Associate, Java Programmer Certification, and Udemy Certified Web Developer.

2653-DATA-2002: Design an intelligence application

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

READINESS-CODED: NO

DESCRIPTION: An intelligence software engineer can design applications on fixed or mobile platforms within the intelligence systems framework. Marines will learn advantages and limitations of tactical resources, regional resources, enterprise and cloud resources.

MOS PERFORMING: 2653

GRADES: LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, authorization, a software development kit, an approved platform, and access to an intelligence network or system.

STANDARD: To deliver critical software-defined resources that increase intelligence production speed for the operational commander.

PERFORMANCE STEPS:
1. Conduct mission analysis.
2. Conduct software requirements analysis.
3. Manage automation levels against resources.
4. Manage platform dependencies.
5. Manage integration requirements.
6. Generate a design model.
7. Select modeling language.
8. Incorporate security.

REFERENCES:
1. DoDD 8140.01 Cyberspace Workforce Management
2. ISBN-13: 978-0789757616 Learn to Code Absolute Beginner's Guide
3. ISBN-13: 978-1840786422 Coding for Beginners in Easy Steps: Basic Programming for All Ages
4. ISR Operations Marine Corps Concept for Intelligence Reconnaissance (ISR) Operations
5. JP 2-01 Joint and National Intelligence Support to Military Operations
6. JP 2-02 National Intelligence Support to Joint Operations
7. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0

8. MCISRE IA Strategy MCISRE Information Architecture Strategy
9. SP 800-124 Rev 1 Guidelines for Managing the Security of Mobile Devices in the Enterprise

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS:
SAS Certified Base Programmer, SAS Certified Advanced Programmer, SAS Certified Data Integration Developer, MCSD Microsoft Certified Solutions Develop App Builder, MTA Microsoft Technology Associate: HTML5 App Development, CSSLP: Certified Secure Software Lifecycle Professional, CLA C Programming Language Certified Associate Certification
CLP C Certified Professional Programmer, Oracle Certified Associate, Java Programmer Certification, and Udemy Certified Web Developer.

2653-DATA-2003: Develop an interactive configuration guide

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: An intelligence software engineer has an additional duty of capturing intelligence knowledge across the enterprise through the use of virtual software tools. Historically, Marines have performed this function using HTML and Microsoft PowerPoint, refining Tactics, Techniques, and Procedures (TTP) with extensive screenshots by loading them into static configuration guides. This training introduces software tools that help create interactive tools to cover installs, setups, special configurations, additional features, and common troubleshooting solutions.

MOS PERFORMING: 2653

GRADES: LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, authorization, a software development kit, an approved platform, and access to an intelligence network or system.

STANDARD: To deliver critical software-defined resources that increase intelligence production speed for the operational commander.

PERFORMANCE STEPS:
1. Identify problem.
2. Storyboard solution.
3. Identify learning objectives.
4. Identify student outcomes.
5. Design materials.
6. Develop content.
7. Implement aid with approved platform.
8. Survey user experience.

REFERENCES:

1. CJCSI 3170.01 Joint Capabilities Integration and Development System (JCIDS) Instruction Manual
2. DoDD 8140.01 Cyberspace Workforce Management
3. ISBN-13: 978-0789757616 Learn to Code Absolute Beginner's Guide
4. ISBN-13: 978-1840786422 Coding for Beginners in Easy Steps: Basic Programming for All Ages
5. ISR Operations Marine Corps Concept for Intelligence Reconnaissance (ISR) Operations
6. JP 2-01 Joint and National Intelligence Support to Military Operations
7. JP 2-02 National Intelligence Support to Joint Operations
8. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0
9. MCISRE IA Strategy MCISRE Information Architecture Strategy
10. SP 800-124 Rev 1 Guidelines for Managing the Security of Mobile Devices in the Enterprise

MISCELLANEOUS:

SPECIAL PERSONNEL CERTS:
SAS Certified Base Programmer, SAS Certified Advanced Programmer, SAS Certified Data Integration Developer, MCSD Microsoft Certified Solutions Develop App Builder, MTA Microsoft Technology Associate: HTML5 App Development, CSSLP: Certified Secure Software Lifecycle Professional, CLA C Programming Language Certified Associate Certification
CLP C Certified Professional Programmer, Oracle Certified Associate, Java Programmer Certification, and Udemy Certified Web Developer.

2653-SCTY-2001: Configure advanced cybersecurity parameters

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Marines within this expertise will also be training in mandated systems and data security parameters as specified by authorizing agency. Each parameter is domain, systems, and site specific, which requires a thorough analysis of mission requirements against resources, and continuous monitoring for auditing and incident reporting purposes.

MOS PERFORMING: 2653

GRADES: LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, authorization, systems security responsibility, permissions, a site profile, and access to intelligence networks.

STANDARD: To maintain a secured intelligence communications architecture.

PERFORMANCE STEPS:

1. Conduct mission analysis.
2. Conduct systems authorizations.
3. Configure continuous monitoring.
4. Conduct vulnerability management.
5. Conduct incident response actions.
6. Implement Security Technical Implementation Guide (STIG) updates.
7. Manage privileged user access responsibilities.

REFERENCES:
1. CJCSI 3170.01 Joint Capabilities Integration and Development System (JCIDS) Instruction Manual
2. DNI E/S 00514 Oversight of privileged users within the intelligence community
3. DoDD 8140.01 Cyberspace Workforce Management
4. DoDI 8330.01 Interoperability of IT and National Security Systems (NSS)
5. DoDI 8551.01 Ports, Protocols, and Services Management (PPSM)
6. ICD 502 Integrated Defense of the Intelligence Community Information Environment
7. ICD 503 Intelligence Community Information Technology Systems Security Risk Management, Certification and Accreditation
8. SP 800-124 Rev 1 Guidelines for Managing the Security of Mobile Devices in the Enterprise
9. SP 800-61 Rev 2 Computer Security Incident Handling Guide

2653-SCTY-2002: Implement National Intelligence Community policy

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

READINESS-CODED: NO

DESCRIPTION: Marines function as systems security managers within intelligence organizations and they must maintain expertise in national intelligence community guidelines for access into agency-specific network domains, and domain resources. This knowledge pertains to persistent, sustained access and regional, mission-specific accesses.

MOS PERFORMING: 2651, 2653

GRADES: LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, authorization, systems security responsibility, permissions, a site profile, and access to intelligence networks.

STANDARD: To maintain a secured intelligence communications architecture.

PERFORMANCE STEPS:
1. Conduct mission analysis.
2. Manage site Authorizations to Operate (ATO).
3. Manage site Authorizations to Connect (ATC).

4. Manage Site Security Plan (SSP).
5. Manage Emergency Destruction Plan (EDP) for systems specific criteria.
6. Audit virtual data access restrictions.

REFERENCES:

1. CJCSI 3170.01 Joint Capabilities Integration and Development System (JCIDS) Instruction Manual
2. DNI E/S 00514 Oversight of privileged users within the intelligence community
3. DoDD 8140.01 Cyberspace Workforce Management
4. DoDI 8330.01 Interoperability of IT and National Security Systems (NSS)
5. DoDI 8551.01 Ports, Protocols, and Services Management (PPSM)
6. ICD 502 Integrated Defense of the Intelligence Community Information Environment
7. ICD 503 Intelligence Community Information Technology Systems Security Risk Management, Certification and Accreditation
8. SP 800-124 Rev 1 Guidelines for Managing the Security of Mobile Devices in the Enterprise
9. SP 800-61 Rev 2 Computer Security Incident Handling Guide

SIGINT T&R MANUAL

CHAPTER 15

MOS 2659 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 15

MOS 2659 INDIVIDUAL EVENTS

15000. PURPOSE. This chapter details the individual events that pertain to Intelligence Technology and Data Chief. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

15001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2659	Intelligence Technology and Data Chief

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
PLAN	Planning

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
2000	Core Plus Skills

15002. INDEX OF 2659 INDIVIDUAL EVENTS

15003. 2659 INDIVIDUAL EVENTS

2659-PLAN-2001: Design cognitive computing implementation strategy

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: Experts are expected to provide leadership for directing cognitive computing and machine learning algorithms against intelligence requirements, albeit within their organization based on regional responsibilities and within the restraints of available resources. The implementation strategy provides guidelines for precise application without branding a capable with a single technology.

MOS PERFORMING: 2659

GRADES: MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, an intelligence information architecture, technological resources, and skilled personnel.

STANDARD: To exploit usable resources within a complex system across several domains of the intelligence information environment.

PERFORMANCE STEPS:
1. Conduct mission analysis.
2. Conduct capability analysis.
3. Categorize application between automated and autonomous solutions.
4. Recognize bias parameters.
5. Develop bias mitigation methods.
6. Chart data diet for target algorithm.
7. Categorize between supervised and unsupervised models.
8. Develop need strategy for cognitive computing.
9. Calculate collective intelligence resource parameters.

REFERENCES:
1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan
2. ICD 501 Discovery and Dissemination or Retrieval of Information within the Intelligence Community
3. ISR Operations Marine Corps Concept for Intelligence Reconnaissance (ISR) Operations
4. JP 2-01 Joint and National Intelligence Support to Military Operations
5. JP 2-02 National Intelligence Support to Joint Operations
6. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0
7. MCISRE Concept Marine Corps Concept for Data Intelligence
8. MCISRE IA Strategy MCISRE Information Architecture Strategy

2659-PLAN-2002: Enforce intelligence communications network security

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The individual chief/supervisor will ensure classified communications and intelligence systems are in compliance with all appropriate security directives and policies.

MOS PERFORMING: 2659

GRADES: MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, mission tasking, and an intelligence communications network.

STANDARD: To ensure reliable data processing and communications within existing security policies, guidelines, and in the time allotted by the commander.

PERFORMANCE STEPS:
1. Examine applicable directives.
2. Manage Open Source Intelligence (OSINT) network connection/access.
3. Manage firewall requirements.
4. Manage configuration settings.
5. Manage access controls.
6. Review auditing.
7. Validate security patches.
8. Report threats to higher.

REFERENCES:
1. DoDD 8140.01 Cyberspace Workforce Management
2. DoDI 3115.12 OSINT Open Source Intelligence (OSINT)
3. DODIIS DJSIG DOD Intelligence Information System (DODIIS) Joint Security Implementation Guide (DJSIG) June 2011
4. ICD 503 Intelligence Community Information Technology Systems Security Risk Management, Certification and Accreditation
5. ISBN-13: 978-1118875070 ComTIA Security+ Study Guide
6. MC ECSD 020 Information Assurance Vulnerability Management Program (IAVM)
7. MCRP 2-10A.3 Open Source Intelligence
8. NIST 800-53 Information Security
9. NIST SP 800-92 Guide to Computer Security Log Management
10. SECNAVINST 5239.19_ DON Computer Network Incident Response and Reporting Requirements

2659-PLAN-2003: Plan intelligence enterprise services

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The Marine will plan intelligence enterprise services as data proliferates across Intelligence Surveillance Reconnaissance (ISR) enterprise and down to tactical nodes.

MOS PERFORMING: 2659

GRADES: MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, technological resources, skilled personnel, and an intelligence communications network.

STANDARD: To support intelligence requirements within the intelligence information environment.

PERFORMANCE STEPS:
1. Conduct mission analysis.
2. Coordinate data sharing with external units/agencies.
3. Coordinate data sharing with coalition partner(s).
4. Identify unique security requirements.
5. Design intelligence information services.
6. Manage network convergence.
7. Manage information convergence.
8. Establish priority of work.
9. Develop intelligence data defense plan.

REFERENCES:
1. ICD 703 Protection of Classified National Intelligence, Including Sensitive Compartmented Information
2. ISR Operations Marine Corps Concept for Intelligence Reconnaissance (ISR) Operations
3. JP 2-02 National Intelligence Support to Joint Operations
4. JP 6-0 Joint Communications System
5. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0
6. MCISRE IA Strategy MCISRE Information Architecture Strategy
7. MCRP 2-10A.1 Signals Intelligence
8. MCRP 3-30B.2 MAGTF Communications System
9. MCWP 6-22 Communications and Information Systems

2659-PLAN-2004: Plan data fusion support to activity-based intelligence

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: Experts are charged with enabling activity-based intelligence strategies across the information operations environment wherever data resides. Techniques used to coordinate intelligence and non-intelligence resources, data-sharing, interoperability, and de-confliction fall within this skill marker.

MOS PERFORMING: 2659

GRADES: MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, an intelligence information architecture, technological resources, and skilled personnel.

STANDARD: To exploit usable resources within a complex system across several domains of the intelligence information environment.

PERFORMANCE STEPS:
1. Examine intelligence within the information operations environment.
2. Implement geo-reference to discover strategies in data management plan.
3. Implement data neutrality strategies in data management plan.
4. Implement sequence neutrality strategies in data management plan.
5. Implement integration before exploitation strategies in data management plan.
6. Manage data fusion strategy.
7. Manage upstream fusion.
8. Manage downstream fusion.
9. Validate data management plan.

REFERENCES:
1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan
2. ISBN-13: 978-1608078455 Data Fusion Support to Activity-Based Intelligence
3. ISBN-13: 978-1608078769 Activity-based Intelligence: Principles and Applications
4. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0
5. MCISRE IA Strategy MCISRE Information Architecture Strategy

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2659-PLAN-2005: Plan data intelligence missions

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: Experts participate in pre-mission planning of intelligence operations to facilitate data gathering and analysis to prevent and avoid critical information gaps within the intelligence assessment.

MOS PERFORMING: 2659

GRADES: MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, an intelligence information architecture, technological resources, and skilled personnel.

STANDARD: To exploit usable resources within a complex system across several domains of the intelligence information environment.

PERFORMANCE STEPS:
1. Analyze data deficiency.
2. Plan data-fication mission.
3. Plan assimilation mission.
4. Plan cognification mission.
5. Plan rapid response actions.
6. Report continuity of operations.

REFERENCES:
1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan
2. Army Data Strategy Army Data Strategy, Office of the Army Chief Information Officer/G-6
3. ICD 501 Discovery and Dissemination or Retrieval of Information within the Intelligence Community
4. ISR Operations Marine Corps Concept for Intelligence Reconnaissance (ISR) Operations
5. JP 2-01 Joint and National Intelligence Support to Military Operations
6. JP 2-02 National Intelligence Support to Joint Operations
7. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0
8. MCISRE IA Strategy MCISRE Information Architecture Strategy
9. MCO 5231.3 Marine Corps Data Strategy
10. MITRE Data Management Data Management and Program Governance for the MCISRE, MITRE Study Report

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2659-PLAN-2006: Employ network science framework

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: Experts are expected to synergistically blend the fundamentals of network science theory with data analysis for a multi-INT approach to deciphering correlation and causation. This skill partners with analytical skills of a senior and/or expert analyst.

MOS PERFORMING: 2659

GRADES: MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of reference, mission tasking, an intelligence information architecture, technological resources, and skilled personnel.

STANDARD: To exploit usable resources within a complex system across several domains of the intelligence information environment.

PERFORMANCE STEPS:

1. Examine data intelligence reporting.
2. Conduct forensic network analysis.
3. Categorize hubs/nodes.
4. Categorize clusters.
5. Categorize links.
6. Measure network growth rate.
7. Measure tolerance.
8. Map network structure.

REFERENCES:

1. 2015-2020 Marine Corps Intelligence Surveillance Reconnaissance Enterprise (MCISRE) Plan
2. ICD 501 Discovery and Dissemination or Retrieval of Information within the Intelligence Community
3. ISBN-13: 978-0199206650 Networks: An Introduction
4. ISBN-13: 978-1107076266 Network Science
5. ISR Operations Marine Corps Concept for Intelligence Reconnaissance (ISR) Operations
6. JP 2-01 Joint and National Intelligence Support to Military Operations
7. JP 2-02 National Intelligence Support to Joint Operations
8. MCISRE Blueprint 3.0 Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) Blueprint Iteration 3.0
9. MCISRE IA Strategy MCISRE Information Architecture Strategy

SIGINT T&R MANUAL

CHAPTER 16

MOS 2691 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 16

MOS 2691 INDIVIDUAL EVENTS

16000. PURPOSE. This chapter details the individual events that pertain to Signals Intelligence/Electronic Warfare/Cyberspace Operations Chief. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

16001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2691	Signals Intelligence/Electronic Warfare/Cyberspace Operations Chief

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
C2	Command and Control
EW	Electronic Warfare
INTL	Intelligence
OCO	Offensive Cyber Operations

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
2000	Core Plus Skills

16002. INDEX OF 2691 INDIVIDUAL EVENTS

16003. 2691 INDIVIDUAL EVENTS

2691-C2-2001: Enable SIGINT/EW C2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The operations chief will facilitate the conduct of signals intelligence and electronic warfare operations through manning, training, procuring, equipping, employing, and coordinating support across all tactical, operational, and strategic levels.

MOS PERFORMING: 2691

BILLETS: Operations Chief, SIGINT/EW Chief

GRADES: MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given current requirements, mission tasking, current T/O and T/E, in a field, garrison, or simulated environment.

STANDARD: Satisfy mission requirements within time limits established by the commander, IAW the references.

PERFORMANCE STEPS:
1. Apply laws, policy, and guidance.
2. Provide input to policy changes.
3. Establish Command Relationships.
4. Identify operational requirements.
5. Satisfy operational requirements.
6. Leverage Program of Record capability to satisfy operational requirements.

REFERENCES:
1. Local SOP Local Standard Operating Procedures
2. MCO 1553.3_ Unit Training Management (UTM) Program
3. MCRP 2-10A.1 Signals Intelligence
4. NAVMC 1200.1_ Military Occupational Specialties Manual

2691-EW-2001: Supervise electronic warfare (EW) operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The operations chief will facilitate the conduct of electronic warfare operations through manning, training, procuring, equipping, employing, and coordinating support across all tactical, operational, and strategic levels.

MOS PERFORMING: 2691

GRADES: MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given current requirements, mission tasking, current T/O and T/E; in a field, garrison, or simulated environment.

STANDARD: To ensure execution of EW operations, within a time limit established by the commander.

PERFORMANCE STEPS:
1. Apply applicable laws, policy, and guidance.
2. Provide input to policy changes.
3. Identify EW requirements. (Personnel, materiel, and training)
4. Create EW requirements. (Personnel, materiel, and training)
5. Validate EW requirements.(Personnel, materiel, and training)
6. Leverage capability development process for DOTMLPF solutions
7. Coordinate for the employment of EW resources.
8. Facilitate Data Flow.

REFERENCES:
1. ATO Air Tasking Order
2. MCRP 2-10A.1 Signals Intelligence
3. MCRP 3-32D.1 Electronic Warfare
4. Radio Battalion SOPs Radio Battalion SOPs
5. USSIDS United States Signals Intelligence Directives

2691-INTL-2001: Enable SIGINT operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The operations chief will facilitate the conduct of SIGINT operations through manning, training, procuring, equipping, employing, and coordinating support across all tactical, operational, and strategic levels.

MOS PERFORMING: 2691

GRADES: MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given current requirements, mission tasking, current T/O and T/E, and in a field, garrison, or simulated environment.

STANDARD: To satisfy SIGINT mission requirements, within a time limit established by the Commander; in accordance with the references.

PERFORMANCE STEPS:
1. Apply applicable laws, policy, and guidance
2. Provide input to policy changes
3. Identify requirements. (Personnel, materiel, and training)
4. Create requirements. (Personnel, materiel, and training)
5. Validate requirements. (Personnel, materiel, and training)
6. Leverage capability development process for DOTMLPF solutions
7. Conduct intelligence gain/loss analysis, as required.
8. Coordinate for the employment of SIGINT resources

REFERENCES:
1. MCRP 2-10A.1 Signals Intelligence
2. MCTP 2-10B MAGTF Intelligence Production and Analysis
3. NIPF National Intelligence Priorities Framework (NIPF)
4. USSID CR1400 (SMGT-2002, 2005, 2006)
5. USSID CR1500 (SMGT-2002, 2005, 2006)
6. USSID SP0009 USSID SP0009

2691-OCO-2001: Enable cyberspace operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The operations chief will facilitate the conduct of electronic warfare operations through manning, training, procuring, equipping, employing, and coordinating support across all tactical, operational, and strategic levels.

MOS PERFORMING: 2691

GRADES: MSGT, MGYSGT

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given current requirements, mission tasking, current T/O and T/E, in a field, garrison, or simulated environment.

STANDARD: Satisfy mission requirements within time limits established by the commander in accordance with the references.

PERFORMANCE STEPS:
1. Coordinate for the employment of cyberspace operations resources.
2. Identify SIGINT/EW support requirements to enable cyberspace operations.
3. Validate SI/EW support requirements to enable cyberspace operations.

REFERENCES:

1. JP 3-12 Cyberspace Operations
2. MCO 3100.4 Cyberspace Operations
3. MCRP 2-10A.1 Signals Intelligence
4. MCRP 3-32D.1 Electronic Warfare

SIGINT T&R MANUAL

CHAPTER 17

MOS 2700 INDIVIDUAL EVENTS

SIGINT T&R MANUAL

CHAPTER 17

MOS 2700 INDIVIDUAL EVENTS

17000. PURPOSE. This chapter details the individual events that pertain to Global Linguists. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

17001. EVENT CODING

1. Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

Code	Description
2700	Global Linguist

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

Code	Description
PROC	Process

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

Code	Description
1000	Core Skills
2000	Core Plus Skills

17002. INDEX OF 2700 INDIVIDUAL EVENTS

17003. 2700 INDIVIDUAL EVENTS

2700-PROC-1001: Summarize verbal foreign language

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The individual must be able to summarize the general content of verbal foreign language rated at ILR level 2, and identify the essential elements of information (EEIs).

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT, WO-1, CWO-2, CWO-3, CWO-4, CWO-5, 2NDLT, 1STLT, CAPT, MAJ, LTCOL, COL

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given Information Requirements, verbal foreign language, without the use of lexical aids rated at ILR level 2

STANDARD: To provide general content information at an ILR level 2 based on a single pass within time limit established by the commander.

PERFORMANCE STEPS:
1. Listen to verbal foreign language.
2. Identify EEIs.
3. Provide a general summary.

REFERENCES:
1. DLIFLC Regulation 350-1
2. DoDD 5101.1 Department of Defense Executive Agent
3. DoDD 5160.41E DLREC Program
4. DoDI 5160.70 Management of DoD Language and Regional Proficiency Capabilities
5. Federal Government Interagency Language Roundtable (ILR) Skill Level Descriptions
6. Target Language Lexical Aids Target Language Lexical Aids

2700-PROC-1002: Answer questions about verbal foreign language

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

READINESS-CODED: NO

DESCRIPTION: The individual must be able to answer questions about verbal foreign language rated at ILR level 2.

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT, WO-1, CWO-2, CWO-3, CWO-4, CWO-5, 2NDLT, 1STLT, CAPT, MAJ, LTCOL, COL

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given information requirements, verbal foreign language, and without the use of lexical aids rated at ILR level 2

STANDARD: At an ILR level 2 based on a single pass within time limit established by the commander.

PERFORMANCE STEPS:
1. Listen to verbal foreign language.

2. Answer questions.

REFERENCES:
1. DLIFLC Regulation 350-1
2. DoDD 5101.1 Department of Defense Executive Agent
3. DoDD 5160.41E DLREC Program
4. DoDI 5160.70 Management of DoD Language and Regional Proficiency Capabilities
5. Federal Government Interagency Language Roundtable (ILR) Skill Level Descriptions
6. Target Language Lexical Aids Target Language Lexical Aids

2700-PROC-1003: Answer questions about written foreign language

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

DESCRIPTION: The individual must be able to answer questions about written foreign language material (printed, handwritten, or other literature) rated at ILR level 2.

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT, WO-1, CWO-2, CWO-3, CWO-4, CWO-5, 2NDLT, 1STLT, CAPT, MAJ, LTCOL, COL

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given written foreign language material, including handwritten rated at ILR level 2

STANDARD: At an ILR level 2 within time limit established by the commander.

PERFORMANCE STEPS:
1. Review foreign language material.
2. Answer questions at an ILR level 2.

REFERENCES:
1. DLIFLC Regulation 350-1
2. DoDD 5101.1 Department of Defense Executive Agent
3. DoDD 5160.41E DLREC Program
4. DoDI 5160.70 Management of DoD Language and Regional Proficiency Capabilities

5. Federal Government Interagency Language Roundtable (ILR) Skill Level Descriptions
6. Target Language Lexical Aids Target Language Lexical Aids

2700-PROC-1004: Translate verbal foreign language material

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

DESCRIPTION: The individual must be able to translate verbal foreign language material rated at ILR level 2 from target language to English, and vice-versa.

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT, WO-1, CWO-2, CWO-3, CWO-4, CWO-5, 2NDLT, 1STLT, CAPT, MAJ, LTCOL, COL

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given written foreign language material including handwritten rated at ILR level 2

STANDARD: To provide a translation with at least 70% accuracy.

PERFORMANCE STEPS:
1. Review foreign language material.
2. Utilize lexical aid(s).
3. Translate foreign language into English, as required.
4. Translate from English into foreign language, as required.

REFERENCES:
1. DLIFLC Regulation 350-1
2. DoDD 5101.1 Department of Defense Executive Agent
3. DoDD 5160.41E DLREC Program
4. DoDI 5160.70 Management of DoD Language and Regional Proficiency Capabilities
5. Federal Government Interagency Language Roundtable (ILR) Skill Level Descriptions
6. Target Language Lexical Aids Target Language Lexical Aids

2700-PROC-1005: Translate written foreign language material

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

READINESS-CODED: NO

DESCRIPTION: The individual must be able to translate written foreign language material (printed, handwritten, or other literature) rated at ILR level 2 from target language to English, and vice-versa.

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT, WO-1, CWO-2, CWO-3, CWO-4, CWO-5, 2NDLT, 1STLT, CAPT, MAJ, LTCOL, COL

INITIAL LEARNING SETTING: FORMAL

CONDITION: With the aid of references, given written foreign language material including handwritten rated at ILR level 2

STANDARD: To provide a translation with at least 70% accuracy.

PERFORMANCE STEPS:

1. Review written foreign language material.

2. Translate foreign language into English, as required.

3. Translate from English into foreign language, as required.

REFERENCES:

1. DLIFLC Regulation 350-1
2. DoDD 5101.1 Department of Defense Executive Agent
3. DoDD 5160.41E DLREC Program
4. DoDI 5160.70 Management of DoD Language and Regional Proficiency Capabilities
5. Federal Government Interagency Language Roundtable (ILR) Skill Level Descriptions
6. Target Language Lexical Aids Target Language Lexical Aids

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APPENDIX A

ACRONYMS

AAV - amphibious assault vehicle
ACP - automated commissioning package
ACT - accuracy completeness time sequence
ACTS - Assignment, Classification, and Travel Systems
AIRS - Automated Inspection Reporting System
AO - area of operations
APTS - advanced presentation and training skills
AR - Active Reserve
ASTB-E - Aviation Selection Test Battery Series-E
AT4C - advanced tool for coaching
BIC - billet information code
CAPT - Captain
CAR - commander's attainment report
CBRN - chemical, biological, radiological, and nuclear
CBT - computer-based training
CG - commanding general
CMC - Commandant of the Marine Corps
CMR - consolidated memorandum receipt
CO - commanding officer
COA - course of action
CONPLAN - contingency plan
CONUS - continental United States
COT - consecutive overseas tours
CPL - Corporal
CRP - combat readiness percentage; command recruiting program
CSR - consolidated strength report
CWO - chief warrant officer
DEP - delayed entry program
DL - distance learning
DOD - Department of Defense
DoDFMR - Department of Defense Financial Management Regulation
DON - Department of the Navy
DRRS - Defense Readiness Reporting System
EAD - extended active duty
ECFC - enlisted career force controls
ECS - effective communication skills
EFMP - Exceptional Family Member Program
ENLPROM - enlisted promotions
EPM - enlistment processing manual
1STLT - First Lieutenant
FAI - functional area inspection
FLC - formal learning center
FMF - fleet Marine force
FY - fiscal year
GOV - government owned vehicle
GSA - Government Services Administration
GYSGT - Gunnery Sergeant
HOTAS - hands-on throttle and stick
HQMC - Headquarters, Marine Corps
IAW - in accordance with

IGMC - Inspector General of the Marine Corps
IIADT - incremental initial active duty training
IMI - individual multimedia instruction
IPOCT - in place consecutive overseas tours
IRAM - Individual Records Administration Manual
IRR - Individual Ready Reserve
IRT - Itinerant Recruiting Trip
JPIC - Joint Package Inspection Checklist
LATMOV - lateral move
LCPL - Lance Corporal
LDO - limited duty officer; line of duty
LOI - letter of instruction
LSL - lump sum leave
MAJ - Major
MARADMIN - Marine Administrative Message
MARCORPROMMAN - Marine Corps Promotion Manual
MARCORSEPMAN - Marine Corps Separation and Retirement Manual
MARFORRES - Marine Corps Forces Reserve
MASP - military academic skills program
MC2 - Marine Corps Communication and Consulting
MC3 - Marine Corps Communication, Coaching, and Counseling
MC4 - Marine Corps Communication, Consulting, Coaching, and Counseling
MCC - monitored command code
MCEOB - Marine Corps Enlisted Opportunities Book
MCI - Marine Corps Institute
MCMEDS - Marine Corps Medical Entitlements Data System
MCMP - Marine Corps mentoring program
MCO - Marine Corps order
MCOOB - Marine Corps Officer Opportunity Book
MCP3 - Marine Corps Performance, Programming and Philosophy
MCPS - Marine Corps Presentation Skills
MCRAMM - Marine Corps Reserve Administrative Management Manual
MCRC - Marine Corps Recruiting Command
MCRD - Marine Corps Recruit Depot
MCRISS - Marine Corps Recruiting Information Support System
MCRISS-OSS - Marine Corps Recruiting Information Support System-Officer Selection Station
MCRISS-PSRS - Marine Corps Recruiting Information Support System-Prior Service Recruiting Station
MCRISS-PSRSS - Marine Corps Recruiting Information Support System-Prior Service Recruiting Substation
MCRISS-RS - Marine Corps Recruiting Information Support System-Recruiting Station
MCROB - Marine Corps Reserve Opportunity Book
MCT - Marine Corps Task
MCTFSPRIM - Marine Corps Total Force Reporting Instructions Manual
MCTIMS - Marine Corps Training Information Management System
MCTL - Marine Corps Task List
MECEP - Marine Corps Enlisted Commissioning Education Program
MEPCOM - Military Entrance Processing Command
MEPS - Military Entrance Processing Station
MET - mission essential task
METL - mission essential task list
MGIB-R - Montgomery GI Bill-Reserve
MGYSGT - Master Gunnery Sergeant
MIRS - USMEPCOM Integrated Resource System
MISSO - Manpower Information Systems Support Officer

MOJT - Marine on-the-job training
MOL - Marine online
MOS - military occupational specialty
MSC - major subordinate command
MSGT - Master Sergeant
MUD - Merkel Unit Designator
NAMI - Naval Aerial Medical Institute
NAVMC - Navy Marine Corps
NIDT - Non-Instrumented Drug Test
NMCI - Navy Marine Corps Communication Information
NWA - new working applicant
OCHF - Operations Chief
OCM - Officer Commissioning Manual
OCONUS - outside the continental United States
OIC - officer in charge
OPFOR - opposing force; opposition force
OPLAN - operational plan
OPNAV - Office of the Chief of Naval Operations
OPNAVINST Chief of Naval Operations instruction
OPS - operations
OPSO - operations officer
ORM - operational risk management
OSO - officer selection officer
OSS - officer selection station
OST - officer selection team
PAC - prospect applicant card
PADD - projected active duty date
PAR - Performance and Review
PFC - Private First Class
PSEP - prior service enlistment program
PSF - public speaking forum
PSR - prior service recruiter
PSRS - prior service recruiting station
PSRSS - prior service recruiting substation
PTAD - permissive temporary additional duty
PVT - Private
QC - quality control
QCIS - quality control SITREP
QSN - quota serial number
RAV - Retention Assist Visit
RECLP - Reserve Enlisted Commissioning Program
RELM - Reenlistment Extension Lateral Move
RI - Recruiter Instructor
ROEP - Reserve Option Enlistment Program
RS - Recruiting Station
RSCE - Recruiting Station Command Element
RSS - Recruiting Substation
RTF - recruiter training file
RUC - reporting unit code
S&R - Schedule and Results
SAT - Systems Approach to Training
SAV - staff assist visit
SDA - special duty assignment
SECNAVINST - Secretary of the Navy instruction
SGT - Sergeant
SGTMAJ - Sergeant Major
SITREP situation report

SMB - SNCOIC Management Book
SMCR - select Marine Corps reserve
SME - subject matter expert
SMOS - supplementary MOS
SNCO - staff noncommissioned officer
SNCOIC - staff noncommissioned officer in charge
SOP - standing operating procedure
SOS - statement of service
SOU - statement of understanding
SRB - selective reenlistment bonus
SRI - Systematic Recruiting Inspection
SRIP - Selected Reserve Incentive Program
SSGT - Staff Sergeant
T&R - training and readiness
T/O - table of organization
TECOM - Training and Education Command
TIP - training input plan
TMS - Training Management System
UMIS - Unit Manpower Information Sheet
UTM - unit training management
WO - Warrant Officer
XO - executive officer

SIGINT T&R MANUAL

APPENDIX B

TERMS AND DEFINITIONS

Terms in this glossary are subject to change as applicable orders and directives are revised. Terms established by Marine Corps orders or directives take precedence after definitions found in Joint Publication 1-02, DOD Dictionary of Military and Associated Terms.

A

After Action Review. A professional discussion of training events conducted after all training to promote learning among training participants. The formality and scope increase with the command level and size of the training evolution. For longer exercises, they should be planned for at predetermined times during an exercise. The results of the AAR shall be recorded on an after action report and forwarded to higher headquarters. The commander and higher headquarters use the results of an AAR to reallocate resources, reprioritize their training plan, and plan for future training.

Assessment. An informal judgment of the unit's proficiency and resources made by a commander or trainer to gain insight into the unit's overall condition. It serves as the basis for the midrange plan. Commanders make frequent use of these determinations during the course of the combat readiness cycle in order to adjust, prioritize or modify training events and plans.

C

Chaining. A process that enables unit leaders to effectively identify subordinate collective events and individual events that support a specific collective event. For example, collective training events at the 4000-Level are directly supported by collective events at the 3000-Level. When a higher level event by its nature requires the completion of lower level events, they are "chained"; Sustainment credit is given for all lower level events chained to a higher event.

Collective Event. A clearly defined, discrete, and measurable activity, action, or event (i.e., task) that requires organized team or unit performance and leads to accomplishment of a mission or function. A collective task is derived from unit missions or higher-level collective tasks. Task accomplishment requires performance of procedures composed of supporting collective or individual tasks. A collective task describes the exact performance a group must perform in the field under actual operational conditions. The term "collective" does not necessarily infer that a unit accomplishes the event. A unit, such as a squad or platoon conducting an attack; may accomplish a collective event or, it may be accomplished by an individual to accomplish a unit mission, such as a battalion supply officer completing a reconciliation of the battalion's CMR. Thus, many collective events will have titles that are the same as individual events; however, the standard and condition will be different because the scope of the collective event is broader.

Collective Training Standards (CTS). Criteria that specify mission and functional area unit proficiency standards for combat, combat support, and combat service support units. They include tasks, conditions, standards, evaluator instruction, and key indicators. CTS are found within collective training events in T&R Manuals.

Combat Readiness Cycle. The combat readiness cycle depicts the relationships within the building block approach to training. The combat readiness cycle progresses from T&R Manual individual core skills training, to the accomplishment of collective training events, and finally, to a unit's participation in a contingency or actual combat. The combat readiness cycle demonstrates the relationship of core capabilities to unit combat readiness. Individual core skills training and the training of collective events lead to unit proficiency and the ability to accomplish the unit's stated mission.

Combat Readiness Percentage (CRP). The CRP is a quantitative numerical value used in calculating collective training readiness based on the E-Coded events that support the unit METL. CRP is a concise measure of unit training accomplishments. This numerical value is only a snapshot of training readiness at a specific time. As training is conducted, unit CRP will continuously change.

Condition. The condition describes the training situation or environment under which the training event or task will take place. Expands on the information in the title by identifying when, where and why the event or task will occur and what materials, personnel, equipment, environmental provisions, and safety constraints must be present to perform the event or task in a real-world environment. Commanders can modify the conditions of the event to best prepare their Marines to accomplish the assigned mission (e.g. in a desert environment; in a mountain environment; etc.).

Core Competency. Core competency is the comprehensive measure of a unit's ability to accomplish its assigned MET. It serves as the foundation of the T&R Program. Core competencies are those unit core capabilities and individual core skills that support the commander's METL and T/O mission statement. Individual competency is exhibited through demonstration of proficiency in specified core tasks and core plus tasks. Unit proficiency is measured through collective tasks.

Core Capabilities. Core capabilities are the essential functions a unit must be capable of performing during extended contingency/combat operations. Core unit capabilities are based upon mission essential tasks derived from operational plans; doctrine and established tactics; techniques and procedures.

Core Plus Capabilities. Core plus capabilities are advanced capabilities that are environment, mission, or theater specific. Core plus capabilities may entail high-risk, high-cost training for missions that are less likely to be assigned in combat.

Core Plus Skills. Core plus skills are those advanced skills that are environment, mission, rank, or billet specific. 2000-Level training is designed to make Marines proficient in core skills in a specific billet or at a specified rank at the Combat Ready level. 3000-8000-Level training produces combat leaders and fully qualified section members at the Combat Qualified level. Marines trained at the Combat Qualified level are those the

commanding officer feels are capable of accomplishing unit-level missions and of directing the actions of subordinates. Many core plus tasks are learned via MOJT, while others form the base for curriculum in career level MOS courses taught by the formal school.

D

Defense Readiness Reporting System (DRRS). A comprehensive readiness reporting system that evaluates readiness on the basis of the actual missions and capabilities assigned to the forces. It is a capabilities-based, adaptive, near real-time reporting system for the entire Department of Defense.

Deferred Event. A T&R event that a commanding officer may postpone when in his or her judgment, a lack of logistic support, ammo, ranges, or other training assets requires a temporary exemption. CRP cannot be accrued for deferred "E-Coded" events.

Delinquent Event. An event becomes delinquent when a unit exceeds the sustainment interval for that particular event. The individual or unit must update the delinquent event by first performing all prerequisite events. When the unit commander deems that performing all prerequisite is unattainable, then the delinquent event will be re-demonstrated under the supervision of the appropriate evaluation authority.

E

E-Coded Event. An "E-Coded" event is a collective T&R event that is a noted indicator of capability or, a noted collective skill that contributes to the unit's ability to perform the supported MET. As such, only "E-Coded" events are assigned a CRP value and used to calculate a unit's CRP.

Evaluation. Evaluation is a continuous process that occurs at all echelons, during every phase of training and can be both formal and informal. Evaluations ensure that Marines and units are capable of conducting their combat mission. Evaluation results are used to reallocate resources, reprioritize the training plan, and plan for future training.

Event (Training). 1) An event is a significant training occurrence that is identified, expanded and used as a building block and potential milestone for a unit's training. An event may include formal evaluations. 2) An event within the T&R Program can be an individual training evolution, a collective training evolution or both. Through T&R events, the unit commander ensures that individual Marines and the unit progress from a combat capable status to a Fully Combat Qualified (FCQ) status.

Event Component. The major procedures (i.e., actions) that must occur to perform a Collective Event to standard.

Exercise Commander (EC). The Commanding General, Marine Expeditionary Force or his appointee will fill this role, unless authority is delegated to the respective commander of the Division, Wing, or FSSG. Responsibilities and functions of the EC include: 1) designate unit(s) to be evaluated, 2) may designate an exercise director, 3) prescribe exercise objectives and T&R events to be evaluated, 4) coordinate with commands or agencies external to the Marine Corps and adjacent Marine Corps commands, when required.

Exercise Director (ED). Designated by the EC to prepare, conduct, and report all evaluation results. Responsibilities and functions of the ED include: 1) Publish a letter of instruction (LOI) that: delineates the T&R events to be evaluated, establishes timeframe of the exercise, lists responsibilities of various elements participating in the exercise, establishes safety requirements/guidelines, and lists coordinating instructions. 2) Designate the TEC and TECG to operate as the central control agency for the exercise. 3) Assign evaluators, to include the senior evaluator, and ensure that those evaluators are properly trained. 4) Develop the general exercise scenario taking into account any objectives/events prescribed by the EC. 5) Arrange for all resources to include: training areas, airspace, aggressor forces, and other required support.

M

Marine Corps Ground Training and Readiness (T&R) Program. The T&R Program is the Marine Corps' primary tool for planning and conducting training, for planning and conducting training evaluation, and for assessing training readiness. The program will provide the commander with standardized programs of instruction for units within the ground combat, combat support, and combat service support communities. It consolidates the ITS, CTS, METL and other individual and unit training management tools. T&R is a program of standards that systematizes commonly accepted skills, is open to innovative change, and above all, tailors the training effort to the unit's mission. Further, T&R serves as a training guide and provides commanders an immediate assessment of unit combat readiness by assigning a CRP to key training events. In short, the T&R Program is a building block approach to training that maximizes flexibility and produces the best-trained Marines possible.

Mission Essential Task(s) MET(s). A MET is a collective task in which an organization must be proficient in order to accomplish an appropriate portion of its wartime mission(s). MET listings are the foundation for the T&R Manual; all events in the T&R Manual support a MET.

Mission Essential Task List (METL). Descriptive training document that provides units a clear, war fighting focused description of collective actions necessary to achieve wartime mission proficiency. The service-level METL, that which is used as the foundation of the T&R Manual, is developed using Marine Corps doctrine, operational plans, T/Os, UJTL, UNTL, and MCTL. For community based T&R Manuals, an occupational field METL is developed to focus the community's collective training standards. Commanders develop their unit METL from the service-level METL, operational plans, contingency plans, and SOPs.

O

Operational Readiness (DOD, NATO). OR is the capability of a unit/formation, ship, weapon system, or equipment to perform the missions or functions for which it is organized or designed. May be used in a general sense or to express a level or degree of readiness.

P

Prerequisite Event. Prerequisites are the academic training and/or T&R events that must be completed prior to attempting the event.

R

Readiness (DOD). Readiness is the ability of U.S. military forces to fight and meet the demands of the national military strategy. Readiness is the synthesis of two distinct but interrelated levels: a) Unit readiness--The ability to provide capabilities required by combatant commanders to execute assigned missions. This is derived from the ability of each unit to deliver the outputs for which it was designed. b) Joint readiness--The combatant commander's ability to integrate and synchronize ready combat and support forces to execute assigned missions.

S

Section Skill Tasks. Section skills are those competencies directly related to unit functioning. They are group rather than individual in nature, and require participation by a section (S-1, S-2, S-3, etc).

Simulation Training. Simulators provide the additional capability to develop and hone core and core plus skills. Accordingly, the development of simulator training events for appropriate T&R syllabi can help maintain valuable combat resources while reducing training time and cost. Therefore, in cases where simulator fidelity and capabilities are such that simulator training closely matches that of actual training events, T&R Manual developers may include the option of using simulators to accomplish the training. CRP credit will be earned for E-Coded simulator events based on assessment of relative training event performance.

Standard. A standard is a statement that establishes criteria for how well a task or learning objective must be performed. The standard specifies how well, completely, or accurately a process must be performed or product produced. For higher-level collective events, it describes why the event is being done and the desired end-state of the event. Standards become more specific for lower-level events and outline the accuracy, time limits, sequencing, quality, product, process, restrictions, etc., that indicate the minimum acceptable level of performance required of the event. At a minimum, both collective and individual training standards consist of a task, the condition under which the task is to be performed, and the evaluation criteria that will be used to verify that the task has been performed to a satisfactory level.

Sustainment Training. Periodic retraining or demonstration of an event required maintaining the minimum acceptable level of proficiency or capability required to accomplish a training objective. Sustainment training goes beyond the entry-level and is designed to maintain or further develop proficiency in a given set of skills.

Systems Approach to Training (SAT). An orderly process for analyzing, designing, developing, implementing, and evaluating a unit's training program to ensure the unit, and the Marines of that unit acquire the knowledge and skills essential for the successful conduct of the unit's wartime missions.

T

Training Task. This describes a direct training activity that pertains to an individual Marine. A task is composed of 3 major components: a description of what is to be done, a condition, and a standard.

Technical Exercise Controller (TEC). The TEC is appointed by the ED, and usually comes from his staff or a subordinate command. The TEC is the senior evaluator within the TECG and should be of equal or higher grade than the commander(s) of the unit(s) being evaluated. The TEC is responsible for ensuring that the evaluation is conducted following the instructions contained in this order and MCO 1553.3A. Specific T&R Manuals are used as the source for evaluation criteria.

Tactical Exercise Control Group (TECG). A TECG is formed to provide subject matter experts in the functional areas being evaluated. The benefit of establishing a permanent TECG is to have resident, dedicated evaluation authority experience, and knowledgeable in evaluation technique. The responsibilities and functions of the TECG include: 1) developing a detailed exercise scenario to include the objectives and events prescribed by the EC/ED in the exercise LOI; 2) conducting detailed evaluator training prior to the exercise; 3) coordinating and controlling role players and aggressors; 4) compiling the evaluation data submitted by the evaluators and submitting required results to the ED; 5) preparing and conducting a detailed exercise debrief for the evaluated unit(s).

Training Plan. Training document that outlines the general plan for the conduct of individual and collective training in an organization for specified periods of time.

U

Unit CRP. Unit CRP is a percentage of the E-Coded collective events that support the unit METL accomplished by the unit. Unit CRP is the average of all MET CRP.

Unit Evaluation. All units in the Marine Corps must be evaluated, either formally or informally, to ensure they are capable of conducting their combat mission. Informal evaluations should take place during all training events. The timing of formal evaluations is critical and should, when appropriate, be directly related to the units' operational deployment cycle. Formal evaluations should take place after the unit has been staffed with the majority of its personnel, has had sufficient time to train to individual and collective standards, and early enough in the training cycle so there is sufficient time to correctly identified weaknesses prior to deployment. All combat units and units' task organized for combat require formal evaluations prior to operational deployments.

Unit Training Management (UTM). Unit training management is the use of the SAT and Marine Corps training principles in a manner that maximizes training results and focuses the training priorities of the unit on its wartime mission. UTM governs the major peacetime training activity of the Marine Corps and applies to all echelons of the Total Force.

W

Waived Event. An event that is waived by a commanding officer when in his or her judgment, previous experience or related performance satisfies the requirement of a particular event.