

MARINE CORPS ENGINEER SCHOOL
Defeat the Device Branch



Information Sheets
for
Counter-IED Training



C-IED BASIC SKILLS

CTC-1

INFORMATION SHEET

Overview:

This course will teach personnel the skills necessary to prepare for operations in an IED environment including the visual identification of IEDs, Homemade Explosives (HME) including the associated chemicals, tools and equipment used to make HME, and how to react to an IED event such as an emplaced or detonated IED, IED component cache, or HME laboratory by performing proper immediate actions.

This course will be continually updated to reflect the evolving threat, friendly TTPs, and unit training requirements. Student feedback, Marine Corps Center for Lessons Learned submissions, and unclassified operational reports will be used to maintain the relevancy of this course.

Concept:

Students will receive 4 hours of lecture, and 8 hours of practical application. The actual course length is dependent on number of students, unit training time available, and classroom capacity.

The course Enabling Objectives are:

1. Given an operating environment with an IED threat, describe the IED threat in order to increase situational awareness.
2. Given an operating environment with an IED threat and observation aiding devices, identify IED components in order to mitigate the enemy's ability to inflict casualties.
3. Given an operating environment and a HME threat assessment brief, identify HME indicators to mitigate the enemy's effects.
4. Given an operating environment and a HME threat assessment brief, react to a HME threat to reduce casualties.
5. Given an operating environment with an IED threat and observation aiding devices, identify enemy employment techniques for IEDs to determine desired effects and mitigate maneuver restrictions.
6. Given an operating environment with an IED threat, conduct the 5-C's to mitigate the enemy's ability to inflict casualties.
7. Given an operating environment with an IED threat, report to higher headquarters to maintain situational awareness.
8. Given an operating environment with an IED threat, determine equipment required to confirm/deny the presence of an IED.
9. Given an operating environment with an IED threat, employ applicable equipment to confirm/deny the presence of an IED.
10. Given an operating environment with an IED threat, mark suspected IED or threat area to protect the forces.
11. Given an operating environment with an IED threat, conduct movement through an IED danger area to mitigate the possibility of casualties.
12. Given an operating environment with an IED threat, rules of engagement, and a detonated improvised explosive device (IED), perform immediate actions to reduce casualties.
13. Given an operating environment with an IED threat, rules of engagement, and a detonated improvised explosive device (IED) with casualties, conduct C-IED measures to prevent further casualties while evacuating injured personnel.

C-IED BASIC SKILLS

CTC-1

INFORMATION SHEET

14. Given an operating environment with an IED threat, rules of engagement, and a detonated improvised explosive device (IED), coordinate recovery of equipment to ensure all equipment is accounted for.

Target Audience:

All personnel in order to increase their knowledge of the Improvised Explosive Device threat and use of homemade explosives as well as provide the skillset necessary to mitigate their effects.

Logistics (Requesting Unit Responsibilities):

Early coordination with MTC Site Lead facilitates resolution of conflicting requirements for training resources. To ensure the target audience is prepared to safely and successfully complete this block of instruction, the unit requesting training must ensure the following are verified/provided:

1. Range Safety Officer (RSO).
2. Officer in Charge (OIC).
3. Safety Vehicle.
4. Corpsman present at the training site.
5. Communication equipment to maintain command and control within the unit as well as positive communication with range control.
6. Personal Protective Equipment (PPE).
7. Personal weapons and binoculars as required.
8. Note taking materials.
9. Chow/water as required.
10. Troop leaders with a working knowledge of squad level patrolling.
11. Student transportation to and from training areas.
12. Reserved classrooms.
13. Maps of training area.
14. Map overlay material, pens, and protractor.

Please confirm all scheduled training with the lead C-IED instructor 48 hours prior to training.



EMPLOY IED DETECTION EQUIPMENT

CTC-2

INFORMATION SHEET

Overview:

This course will teach personnel the knowledge and skills required to employ IED detection equipment. Students will be taught to employ the CEIA V2.060 metal detector to aid in confirming Improvised Explosive Devices.

This course will be continually updated to reflect the evolving threat, friendly TTPs, and unit training requirements. Student feedback, Marine Corps Center for Lessons Learned submissions, and unclassified operational reports will be used to maintain the relevancy of this course.

Concept:

Students will receive 1.5 hours of lecture, and 2.5 hours of practical application. The actual course length is dependent on number of students, unit training time available, and classroom capacity.

The course Enabling Objectives are:

1. Given an operating environment with an IED threat and a hand held detector, perform preventative maintenance checks and services on a hand held detector to ensure operational readiness.
2. Given an operating environment with an IED threat and a hand held detector, locate hidden explosive hazards with a handheld detector to increase freedom of maneuver.

Target Audience:

Private to Sergeant but relevant to all personnel who will be employing IED detection equipment.

Logistics (Requesting Unit Responsibilities):

Early coordination with MTC Site Lead facilitates resolution of conflicting requirements for training resources. To ensure the target audience is prepared to safely and successfully complete this block of instruction, the unit requesting training must ensure the following are verified/provided:

1. Range Safety Officer (RSO).
2. Officer in Charge (OIC).
3. Safety Vehicle.
4. Corpsman present at the training site.
5. Communication equipment to maintain command and control within the unit as well as positive communication with range control.
6. Personal Protective Equipment (PPE).
7. Note taking materials.
8. Chow/water as required.
9. Student transportation to and from training areas.
10. Reserved classrooms.

Please confirm all scheduled training with the lead C-IED instructor 48 hours prior to training.



EMPLOY CREW EQUIPMENT

CTC-3

INFORMATION SHEET

Overview:

This course will teach personnel the knowledge and skills required to employ Marine Corps CREW systems (CVRJ (V)2 and Thor III).

This course will be continually updated to reflect the evolving threat, friendly TTPs, and unit training requirements. Student feedback, Marine Corps Center for Lessons Learned submissions, and unclassified operational reports will be used to maintain the relevancy of this course.

Concept:

Students will receive 3 hours of lecture, 1 hour of demonstration, and 4 hours of practical application. The actual course length is dependent on number of students, unit training time available, and classroom capacity.

The course Enabling Objectives are:

1. Without the aid of reference, describe the principles of CREW system jamming in accordance with the reference(s).
2. With the aid of reference and a CVRJ system, demonstrate the operating procedures in accordance with the reference(s).
3. With the aid of reference and a Thor III system, demonstrate the operating procedures in accordance with the reference(s).
4. Given an operating environment with an IED threat and a CREW system, tactically employ the CREW system to mitigate the RCIED threat.

Target Audience:

Private to Sergeant but relevant to all personnel who will be employing CREW Systems.

Logistics (Requesting Unit Responsibilities):

Early coordination with MTC Site Lead facilitates resolution of conflicting requirements for training resources. To ensure the target audience is prepared to safely and successfully complete this block of instruction, the unit requesting training must ensure the following are verified/provided:

1. Note taking materials.
2. Chow/water as required.
3. Student transportation to and from training areas.
4. Reserved classrooms.
5. CREW systems (if not using MCES surrogate systems).

Please confirm all scheduled training with the lead C-IED instructor 48 hours prior to training.



SITE EXPLOITATION AND IDENTITY DOMINANCE

CTC-4

INFORMATION SHEET

Overview:

This course will teach personnel the knowledge required to plan and execute building, area, vehicle, and person searches as well as covers the basics in identifying, preserving, and collecting evidence. Training also includes instruction and practical application in biometrics collection to include facial recognition, iris recognition, and finger printing.

This course will be continually updated to reflect the evolving threat, friendly TTPs, and unit training requirements. Student feedback, Marine Corps Center for Lessons Learned submissions, and unclassified operational reports will be used to maintain the relevancy of this course.

Concept:

Students will receive 6.5 hours of lecture, 1 hour of demonstration, and 16.5 hours of practical application. The actual course length is dependent on number of students, unit training time available, and classroom capacity.

The course Enabling Objectives are:

1. Without the aid of references, define site exploitation in accordance with the reference.
2. Without the aid of references, describe evidence collection and handling procedures in accordance with the reference.
3. Without the aid of references, conduct tactical questioning to obtain intelligence.
4. Without the aid of references, conduct searches to discover contraband.
5. Without the aid of references, state the purpose of identity dominance in accordance with the reference.
6. Without the aid of references, conduct a biometric enrollment to prevent the enemy from maintaining anonymity.

Target Audience:

Private through Sergeant who are assigned to a search team or will be conducting biometric collections.

SITE EXPLOITATION AND IDENTITY DOMINANCE

CTC-4

INFORMATION SHEET

Logistics (Requesting Unit Responsibilities):

Early coordination with MTC Site Lead facilitates resolution of conflicting requirements for training resources. To ensure the target audience is prepared to safely and successfully complete this block of instruction, the unit requesting training must ensure the following are verified/provided:

1. Range Safety Officer (RSO).
2. Officer in Charge (OIC).
3. Safety Vehicle.
4. Corpsman present at the training site.
5. Communication equipment to maintain command and control within the unit as well as positive communication with range control.
6. Personal Protective Equipment (PPE).
7. Personal weapons and binoculars as required.
8. Note taking materials.
9. Chow/water as required.
10. Troop leaders with a working knowledge of squad level patrolling.
11. Student transportation to and from training areas.
12. Reserved classrooms.
13. Maps of training area.
14. Map overlay material, pens, and protractor.

Please confirm all scheduled training with the lead C-IED instructor 48 hours prior to training.



C-IED LEADER SKILLS AND ENABLER INTEGRATION

CTC-5

INFORMATION SHEET

Overview:

This course will teach small unit leaders considerations to include while planning for operating in an IED environment, information on common enablers available while operating in an IED environment, and considerations for integrating CREW, handheld detectors and robots.

This course will be continually updated to reflect the evolving threat, friendly TTPs, and unit training requirements. Student feedback, Marine Corps Center for Lessons Learned submissions, and unclassified operational reports will be used to maintain the relevancy of this course.

Concept:

Students will receive 4.5 hours of lecture, 1.5 hours of tactical decision games (TDGs), 2 hours of order writing, and 8 hours of practical application. The actual course length is dependent on number of students, unit training time available, and classroom capacity.

The course Enabling Objectives are:

1. Without the aid of references, describe the fundamentals of defeat the device to mitigate the IED threat.
2. Without the aid of references, define site exploitation in accordance with the reference.
3. Without the aid of references, state the purpose of identity dominance in accordance with the reference.
4. Without the aid of references, identify the appropriate C-IED enabler for a specified task to mitigate the IED threat.
5. Without the aid of references, supervise organic C-IED enabler operations to mitigate the IED threat.
6. Without the aid of references, incorporate C-IED fundamentals into mission planning to mitigate the IED threat.

Target Audience:

Corporal to Captain, but relevant to all personnel who are involved in any stage of planning for operations in areas which may contain Improvised Explosive Devices (IEDs).

C-IED LEADER SKILLS AND ENABLER INTEGRATION

CTC-5

INFORMATION SHEET

Logistics (Requesting Unit Responsibilities):

Early coordination with MTC Site Lead facilitates resolution of conflicting requirements for training resources. To ensure the target audience is prepared to safely and successfully complete this block of instruction, the unit requesting training must ensure the following are verified/provided:

1. Range Safety Officer (RSO).
2. Officer in Charge (OIC).
3. Safety Vehicle.
4. Corpsman present at the training site.
5. Communication equipment to maintain command and control within the unit as well as positive communication with range control.
6. Personal Protective Equipment (PPE).
7. Personal weapons and binoculars as required.
8. Note taking materials.
9. Chow/water as required.
10. Student transportation to and from training areas.
11. Reserved classrooms.
12. Maps of training area.
13. Map overlay material, pens, and protractor.

Please confirm all scheduled training with the lead C-IED instructor 48 hours prior to training.



MANAGE CREW PROGRAM

CTC-6

INFORMATION SHEET

Overview:

This course will teach SNCOs and Officers the training and materials needed in order to advise the Commander on all aspects of CREW system operations, employment, integration, maintenance, and logistics. It will also provide the student with a basic knowledge of the concepts of Electronic Warfare within the USMC and the organizations and systems that support it.

This course will be continually updated to reflect the evolving threat, friendly TTPs, and unit training requirements. Student feedback, Marine Corps Center for Lessons Learned submissions, and unclassified operational reports will be used to maintain the relevancy of this course.

Concept:

Students will receive 8.5 hours of lecture, 0.5 hours of demonstration, 0.5 hours of tactical decision games (TDGs), 4 hours of practical application and 8 hours of CREW employment. The actual course length is dependent on number of students, unit training time available, and classroom capacity.

The course Enabling Objectives are:

1. Without the aid of reference, describe the principles of CREW system jamming in accordance with the reference(s).
2. With the aid of reference and a CVRJ system, demonstrate the CVRJ operating procedures in accordance with the reference(s).
3. With the aid of reference and a Thor III system, demonstrate the Thor III operating procedures in accordance with the reference(s).
4. Given an operating environment with an IED threat and a CREW system, tactically employ the CREW system to mitigate the RCIED threat.
5. With the aid of reference, manage CREW systems maintenance to ensure systems are accounted for and available.
6. With the aid of references, manage loadsets to ensure proper loadsets are available and used.
7. With the aid of reference, advise higher, adjacent, and supporting commanders of the current RCIED threat to mitigate the threat.
8. With the aid of reference and a Universal Test Set, employ the Universal Test Set to ensure CREW systems are functioning properly.
9. With the aid of reference and a CREW system, provide CREW operator sustainment training to ensure CREW operators effectively employ CREW systems.

Target Audience:

Personnel who may be assigned as battalion or regimental CREWO. SECRET clearance is required.

Logistics (Requesting Unit Responsibilities):

Early coordination with MTC Site Lead facilitates resolution of conflicting requirements for training resources. To ensure the target audience is prepared to safely and successfully complete this block of instruction, the unit requesting training must ensure the following are verified/provided:

1. Access to a classified area with SIPR computer/port.
2. TAD costs, if attending from outside the local area.
3. Student transportation to and from training areas.

Please confirm all scheduled training with the lead C-IED instructor 48 hours prior to training.



C-IED BASIC LEADER

CBL

INFORMATION SHEET

Overview:

This course is designed to provide an intermediate/supervisory level of professional knowledge in C-IED operations. CBLs will assist commanders with incorporating C-IED scenarios into training events in order to enable unit/collective C-IED training. The CBL is intended to augment and enhance the service-provided DtD training program managed and delivered by Marine Corps Engineer School, by providing the commander with an organic sustainment capability.

This course will be continually updated to reflect the evolving threat, friendly TTPs, and unit training requirements. Student feedback, Marine Corps Center for Lessons Learned submissions, and unclassified operational reports will be used to maintain the relevancy of this course.

Concept:

Students will receive 31.75 hours of lecture, 3.0 hours of demonstration, 1.25 hours of tactical decision games (TDGs), and 34 hours of practical application. The actual course length is dependent on number of students, unit training time available, and classroom capacity.

The course Enabling Objectives are:

1. Given an operating environment with an IED, describe the IED threat in order to increase situational awareness.
2. Given an operating environment, describe the effect of network engagement as a means of neutralizing enemy combatants.
3. Given an operating environment with an IED threat and observation aiding devices, identify IED components in order to mitigate the enemy's ability to inflict casualties.
4. Given an operating environment and HME threat assessment brief, identify HME indicators to mitigate the enemy's effects.
5. Given an operating environment and HME threat assessment brief, react to a HME threat to reduce casualties.
6. Given an operating environment with an IED threat and observation aiding devices, identify enemy employment techniques for IEDs to determine desired effects and mitigate maneuver restrictions.
7. Given an operating environment with an IED threat, conduct the 5-C's to mitigate the enemy's ability to inflict casualties.
8. Given an operating environment with an IED threat, report to higher headquarters to maintain situational awareness.
9. Given operating environment with IED threat, determine equipment required to confirm/deny the presence of an IED.
10. Given operating environment with IED threat, employ applicable equipment to confirm/deny the presence of an IED.
11. Given operating environment with IED threat, mark suspected IED or threat area to protect the forces.
12. Given an operating environment with an IED threat, conduct movement through an IED danger area to mitigate the possibility of casualties.
13. Given an operating environment with an IED threat, rules of engagement, and a confirmed improvised explosive device (IED), perform immediate actions to reduce casualties.

C-IED BASIC LEADER

CBL

INFORMATION SHEET

14. Given an operating environment with an IED threat, rules of engagement, and a detonated improvised explosive device (IED), perform immediate actions to reduce casualties.
15. Given an operating environment with an IED threat, rules of engagement, and a detonated improvised explosive device (IED) with casualties, conduct C-IED measures to prevent further casualties while evacuating injured personnel.
16. Given an operating environment with an IED threat, rules of engagement, and a detonated improvised explosive device (IED), coordinate recovery of equipment to ensure all equipment is accounted for.
17. Without the aid of references, describe the fundamentals of defeat the device to mitigate the IED threat.
18. Without the aid of references, identify the appropriate C-IED enabler for a specified task to mitigate the IED threat.
19. Given an operating environment with an IED threat and a CEIA Compact Metal Detector (CMD), perform preventative maintenance checks and services on a CMD to ensure operational readiness.
20. Given an operating environment with an IED threat and a CEIA Compact Metal Detector (CMD), locate hidden explosive hazards with a CMD to increase freedom of maneuver.
21. Without the aid of reference, describe the principles of CREW system jamming in accordance with the reference(s).
22. With the aid of reference and a CVRJ system, demonstrate the operating procedures in accordance with the reference(s).
23. With the aid of reference and a Thor III system, demonstrate the operating procedures in accordance with the reference(s).
24. Given an operating environment with an IED threat and a CREW system, tactically employ the CREW system to mitigate the RCIED threat.
25. Without the aid of references, incorporate C-IED enablers into mission planning to mitigate the IED threat.
26. Without the aid of references, incorporate C-IED fundamentals into mission planning to mitigate the IED threat.
27. With the aid of references, develop IED training scenarios to incorporate into unit training to sustain unit C-IED training.
28. Given a Performance Evaluation Checklist (PECL), evaluate the unit on C-IED fundamentals to determine the ability of the unit to operate in an area with an IED threat.

Target Audience:

NCOs and SNCOs that will be assigned as the C-IED Basic Leader within their unit.

C-IED BASIC LEADER

CBL

INFORMATION SHEET

Logistics (Requesting Unit Responsibilities):

Early coordination with MTC Site Lead facilitates resolution of conflicting requirements for training resources. To ensure the target audience is prepared to safely and successfully complete this block of instruction, the unit requesting training must ensure the following are verified/provided:

1. TAD costs, if attending from outside the local area.
2. Note taking materials.
3. Chow/water as required.
4. Personal Protective Equipment (PPE).

Please confirm all scheduled training with the lead C-IED instructor 48 hours prior to training.

MCES Points of Contact:

DtD Branch Head	(910) 440-7236
DtD Branch Chief	(910) 440-7556
DtD Director of Operations	(910) 440-7498
Operations/MARFORRES	(910) 440-7167
I MEF Site Lead/III MEF-Hawaii	(760) 763-3634
II MEF Site Lead/III MEF-Okinawa	(910) 449-4407
29 Palms Site Lead	(760) 586-0509
MWTC Evaluator	(760) 763-3637
Curriculum Manager	(910) 440-7956
Engineer SME	(910) 440-7882
EOD SME	(910) 440-7146
Intel SME	(910) 440-6153
Logistics Specialist	(910) 440-7170
Marine Corps Tactics and Operations Group	(760) 830-3984