

COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

DUTY: 1302-ADMN DESC: Administration

TASK: 1302-ADMN-1001 DESC:

TLO: 1302-ADMN-1001

TLO TEXT: Given a unit training plan, time restraints, commander's intent, personnel, and equipment, manage unit training to meet requirements of the training plan and the commander's intent.

ELO: 1302-ADMN-1001a

ELO TEXT: Given a unit training plan, time restraints, commander's intent, personnel, and equipment, analyze a T&R manual to collect the required information to develop training schedules to meet the requirements of the training plan, the commander's intent and in accordance with NAVMC 3500.12 Engineer and Utilities Training and Readiness Manual.

ELO: 1302-ADMN-1001b

ELO TEXT: Given a unit training plan, time restraints, commander's intent, personnel, and equipment, identify the various types of training or programs that can be used to meet the requirements of the training plan, the commander's intent and in accordance with MCRP 3-0A Unit Training Management Guide.

ELO: 1302-ADMN-1001c

ELO TEXT: Given a unit training plan, time restraints, commander's intent, personnel, and equipment, design training to meet the requirements of the training plan, the commander's intent and in accordance with MCRP 3-0A Unit Training Management Guide.

ELO: 1302-ADMN-1001d

ELO TEXT: Given a unit training plan, time restraints, commander's intent, personnel, and equipment, conduct Operational Risk Assessment (ORA) to identify possible hazards and how to mitigate hazards for specified training in accordance with MCO 3500.27_ Operational Risk Management.

ELO: 1302-ADMN-1001e

ELO TEXT: Given a unit training plan, time restraints, commander's intent, personnel, and equipment, develop training to meet the requirements of the training plan, the commander's intent and in accordance with MCRP 3-0B How To Conduct Training.

ELO: 1302-ADMN-1001f

ELO TEXT: Given a unit training plan, time restraints, commander's intent, personnel, and equipment, implement training to the meet requirements of the training plan, the commander's intent and in accordance with MCRP 3-0B How To Conduct Training.

ELO: 1302-ADMN-1001g

ELO TEXT: Given a unit training plan, time restraints, commander's intent, personnel, and equipment, evaluate the training conducted (after action reports) to identify possible shortfalls or if the training met the requirements of the training plan, the commander's intent in accordance with MCRP 3-0A Unit Training Management Guide and MCRP 3-0B How To Conduct Training.

TASK: 1302-ADMN-1002 DESC:

TLO: 1302-ADMN-1002



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TLO TEXT: Given a mission, commander's intent, and references, deliver a military brief to provide an oral description of the current engineer situation, proposed execution, and logistical support capabilities and limitations in accordance with MCWP 3-40.1 MAGTF Command and Control.

ELO: 1302-ADMN-1002a

ELO TEXT: Given a mission, commander's intent, and references, select the type of brief to pass the required information in accordance with the mission, commander's intent and MCWP 3-40.1 MAGTF Command and Control.

ELO: 1302-ADMN-1002b

ELO TEXT: Given a mission, commander's intent, and references, design the brief (research) to pass the required information in accordance with the mission, commander's intent, MCWP 3-40.1 MAGTF Command and Control, and MCWP 5-1 Marine Corps Planning Process (MCPP).

ELO: 1302-ADMN-1002c

ELO TEXT: Given a mission, commander's intent, and references, develop the brief to pass the required information in accordance with the mission, commander's intent, MCWP 3-40.1 MAGTF Command and Control, and MCWP 5-1 Marine Corps Planning Process (MCPP).

ELO: 1302-ADMN-1002d

ELO TEXT: Given a mission, commander's intent, and references, rehearse and prepare supporting documents for the brief to pass the required information in accordance with the mission, commander's intent, MCWP 3-40.1 MAGTF Command and Control, and MCWP 5-1 Marine Corps Planning Process (MCPP).

ELO: 1302-ADMN-1002e

ELO TEXT: Given a mission, commander's intent, and references, advise the commander of the engineer situation/mission employing effective briefing techniques to pass the required information in accordance with the mission, commander's intent, MCWP 3-40.1 MAGTF Command and Control, and MCWP 3-17 Engineering Operations.

ELO: 1302-ADMN-1002f

ELO TEXT: Given a mission, commander's intent, and references, conduct a confirmation brief on base camp site construction to pass the required information on layout, phases of construction, and logistical requirements in accordance with the mission, commander's intent, MCWP 3-40.1 MAGTF Command and Control, and MCWP 3-17 Engineering Operations.

ELO: 1302-ADMN-1002g

ELO TEXT: Given a mission, commander's intent, and references, conduct a confirmation brief on survivability positions construction to pass the required information on site locations, types of positions/shelters, phases of construction, and resource/logistical requirements in accordance with the mission, commander's intent, force protection guidelines, MCWP 3-40.1 MAGTF Command and Control, and MCWP 3-17 Engineering Operations.

ELO: 1302-ADMN-1002h

ELO TEXT: Given a mission, commander's intent, and references, conduct a confirmation brief on gap crossing operation (wet/dry) to pass the required information on site locations, phases of operation, phases of construction, security considerations, and resource/logistical requirements in accordance with the mission, commander's intent, MCWP 3-40.1 MAGTF Command and Control, and MCWP 3-17 Engineering Operations.

ELO: 1302-ADMN-1002i



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ELO TEXT: Given a mission, commander's intent, and references, conduct a confirmation brief on obstacle construction (anti-vehicular/anti-personnel) to pass the required information on site locations, types of obstacles, phases of construction, security considerations, and resource/logistical requirements in accordance with the mission, commander's intent to block, fix, turn or delay enemy movement, MCWP 3-40.1 MAGTF Command and Control, and MCWP 3-17 Engineering Operations.

ELO: 1302-ADMN-1002j

ELO TEXT: Given a mission, commander's intent, and references, conduct a confirmation brief on obstacle breaching (explosive/non-explosive) to pass the required information on breach location(s), types of breach, enemy considerations, security considerations, and resource/logistical requirements needed in accordance with the mission, commander's intent, and to reduce the obstacle(s) to allow force mobility, MCWP 3-40.1 MAGTF Command and Control, and MCWP 3-17 Engineering Operations.



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DUTY: 1302-CMOB DESC: Counter Mobility

TASK: 1302-CMOB-1001 DESC:

TLO: 1302-CMOB-1001

TLO TEXT: Given a tactical situation, an operations order, an obstacle plan overlay, and references, plan the emplacement of an obstacle to meet the requirements of the obstacle plan in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1001a

ELO TEXT: Given a tactical situation, an operations order, an obstacle plan overlay, and references, identify the countermobility requirements of an explosive obstacle to meet the requirements of the obstacle plan and in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1001b

ELO TEXT: Given a type of explosive obstacle and without references, select in writing the characteristics of an explosive obstacle per the MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1302-CMOB-1001c

ELO TEXT: Given an explosive munition (mine) and without references, select in writing the explosive munition's (mine) characteristics per the MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1302-CMOB-1001d

ELO TEXT: Without references, describe in writing the procedures to emplace an explosive obstacle per the MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1302-CMOB-1001e

ELO TEXT: Given a tactical situation and references, calculate logistical requirements necessary to emplace an explosive obstacle (if applicable) per the MCRP 3-17.2D Explosive Hazard Operations and MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1001f

ELO TEXT: Given a tactical situation and references, describe in writing the task organization of personnel and equipment required for emplacement of an explosive obstacle per the MCRP 3-17.2D Explosive Hazard Operations and MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1001g

ELO TEXT: Given a mission to employ an explosive obstacle and without references, describe in writing the required control measures to emplace explosive obstacles per the MCRP 3-17.2D Explosive Hazard Operations and MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1001h

ELO TEXT: Given explosive obstacle data, engineer forms and reports, a protractor, a ruler, pencil, and without references, record explosive obstacle(s) data in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations, MCRP 3-17A Engineer Field Data and MCRP 3-17B Engineer Forms and Reports.

ELO: 1302-CMOB-1001i

ELO TEXT: Given a tactical situation, an operations order, an obstacle plan overlay, and references, identify the countermobility requirements of a non-explosive obstacle to meet the requirements of the obstacle plan in accordance with MCWP 3-17.5



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Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1001j

ELO TEXT: Given a tactical situation, an operations order, a map, an enemy threat, commander's intent, and references, plan construction of wire obstacles (if applicable) that will support the commander's intent and counter the enemy threat in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1001k

ELO TEXT: Given a tactical situation, an operations order, a map, an enemy threat, commander's intent, and references, plan construction of log obstacles (if applicable) that will support the commander's intent and counter the enemy threat in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1001l

ELO TEXT: Given a tactical situation, an operations order, a map, an enemy threat, commander's intent, and references, plan construction of anti-tank ditch/berm (if applicable) that will support the commander's intent and counter the enemy threat in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1001m

ELO TEXT: Given a tactical situation, an operations order, a map, an enemy threat, commander's intent, and references, plan construction of field expedient obstacles (if applicable) that will support the commander's intent and counter the enemy threat in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations and GTA 90-01-011 Joint Force Protection (JFOB) Handbook.

ELO: 1302-CMOB-1001n

ELO TEXT: Given a tactical situation, an operations order, a map, an enemy threat, commander's intent, and references, estimate all materials required to construct nonexplosive obstacles that will support the commander's intent and counter the enemy threat in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations and GTA 90-01-011 Joint Force Protection (JFOB) Handbook.

ELO: 1302-CMOB-1001o

ELO TEXT: Given a tactical situation, an operations order, a map, an enemy threat, commander's intent and references, task organize engineer personnel and equipment to construct nonexplosive obstacles that will support the commander's intent and counter the enemy threat in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1001p

ELO TEXT: Given a tactical situation, a construction site, Class IV material, engineer pioneer tool kit(s), and personal protective equipment (PPE), construct a non-explosive obstacle to counter the enemy threat in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1001q

ELO TEXT: Given a tactical situation, Class V (W), M18A1 Anti-Personnel Mine (Claymore), and personal protective equipment (PPE), employ an explosive obstacle to counter the enemy threat in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

TASK: 1302-CMOB-1002 DESC:

TLO: 1302-CMOB-1002

TLO TEXT: Given a tactical situation, an operations order, a map, required personnel, equipment, and



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references, plan construction of vehicle checkpoints as a part of an countermobility plan to meet supported unit requirements outlined in the concept of operations of the operations order in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1002a

ELO TEXT: Given a tactical situation, an operations order, a map, required personnel and equipment, an enemy threat, concept of operations, commander's intent and references, design a vehicle checkpoint that supports the commander's intent and in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1002b

ELO TEXT: Given a tactical situation, an operations order, a map, required personnel and equipment, an enemy threat, concept of operations, commander's intent and references, develop an obstacle/barrier plan to prevent bypass of the vehicle checkpoint in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

TASK: 1302-CMOB-1003 DESC:

TLO: 1302-CMOB-1003

TLO TEXT: Given a tactical situation, an operations order, a map, and references, prepare an obstacle plan that recommends types of obstacles; obstacle placement; the resources required to construct the obstacles; and an obstacle overlay, which support the scheme of maneuver by fixing, turning, blocking or disrupting enemy movement.

ELO: 1302-CMOB-1003a

ELO TEXT: Given a tactical situation, an operations order, a map, an area and references, identify existing, reinforcing and expedient obstacles which support the scheme of maneuver by fixing, turning, blocking or disrupting enemy movement and in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1003b

ELO TEXT: Given a tactical situation, an operations order, a map, an area and references, determine obstacle placement and intent which support the scheme of maneuver by fixing, turning, blocking or disrupting enemy movement and in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1003c

ELO TEXT: Given a tactical situation, an operations order, a map, an area and references, recommend location of fires to enhance obstacles which support the scheme of maneuver in accordance with MCWP 3-1 Ground Combat Operations and MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1003d

ELO TEXT: Given a tactical situation, an operations order, a map, an area and references, identify countermobility tasks which support the scheme of maneuver in accordance with MCWP 3-1 Ground Combat Operations and MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1003e

ELO TEXT: Given a tactical situation, an operations order, a map, an area and references, develop a lane closure plan which supports the scheme of maneuver in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1003f



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ELO TEXT: Given a tactical situation, an operations order, a map, an area and references, develop a back breach plan which supports the scheme of maneuver in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

ELO: 1302-CMOB-1003g

ELO TEXT: Given a tactical situation, an operations order, a map, an area and references, develop countermobility products which support the scheme of maneuver in accordance with MCWP 3-17.5 Combined Arms Countermobility Operations.

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LEARNING OBJECTIVE REPORT

DUTY: 1302-DEMO DESC: Demolitions, Munitions, and Specialized Demolitions

TASK: 1302-DEMO-1001 DESC:

TLO: 1302-DEMO-1001

TLO TEXT: Given a tactical situation, a map, an operations order, equipment, personnel, and references, plan for demolition operations to execute a demolition mission in support of the commander's intent and concept of operations in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1001a

ELO TEXT: Given a tactical situation, a map, an operations order, equipment, personnel and references, conduct reconnaissance for demolition operations to execute a demolition mission in support of the commander's intent, the concept of operations, and in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1001b

ELO TEXT: Given a tactical situation, a map, an operations order, equipment, personnel and references, analyze targets to execute a demolition mission in support of the commander's intent, the concept of operations, and in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1001c

ELO TEXT: Given a tactical situation, a map, an operations order, equipment, personnel and references, develop a target folder (non-nuclear) for a demolition operation in support of the commander's intent, the concept of operations, and in accordance with MCRP 3-17.7L Explosives and Demolitions and STANAG 2123 Obstacle Folder.

ELO: 1302-DEMO-1001d

ELO TEXT: Given a tactical situation, a map, an operations order, equipment, personnel and references, prepare for demolition operations to execute a demolition mission in support of the commander's intent, the concept of operations, and in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1001e

ELO TEXT: Given a tactical situation, a map, an operations order, equipment, personnel and references, conduct demolition operations in support of the commander's intent, the concept of operations, and in accordance with MCRP 3-17.7L Explosives and Demolitions.

TASK: 1302-DEMO-1002 DESC:

TLO: 1302-DEMO-1002

TLO TEXT: Given a tactical situation, appropriate Class V material, a demolition kit, target material, personal protective equipment (PPE) and references, detonate demolitions to ensure all charges are constructed according to the method of use and ensuring detonation while observing all safety procedures in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002a

ELO TEXT: Given a demolition mission, a squad demolition kit and references, select in writing appropriate components of the squad demolition kit to accomplish the demolition mission per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002b



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ELO TEXT: Given a military explosive and references, identify in writing the characteristics of the explosive(s) per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002c

ELO TEXT: Given a demolition mission and references, determine in writing the amount of explosives required to produce the desired effect on the target per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002d

ELO TEXT: Given a list of demolitions, demolition tools, demolition accessories and references, select in writing the necessary materials for construction of a non-electric firing system per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002e

ELO TEXT: Given a list of demolitions, demolition tools, demolition accessories and references, select in writing the necessary materials for construction of an electric firing system per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002f

ELO TEXT: Given a type of demolition charge and references, describe in writing the procedure for priming the charge with detonating cord per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002g

ELO TEXT: Given a demolition charge and a demolition target, necessary equipment and references, describe in writing the placement of the charge to produce the desired effect on the target per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002h

ELO TEXT: Given a demolition charge and a demolition target, necessary equipment and references, list in writing the steps required to initiate detonation in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002i

ELO TEXT: Given a demolition target and references, submit required engineer/demolition reports in accordance with MCRP 3-17.7L Explosives and Demolitions and MCRP 3-17B Engineer Forms and Reports.

ELO: 1302-DEMO-1002j

ELO TEXT: Given a mission, a demolitions training area, demolition tools, explosives, personal protective equipment (PPE) and references, construct a non-electric firing system in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002k

ELO TEXT: Given a mission, a demolitions training area, demolition tools, explosives, personal protective equipment (PPE) and references, construct an electric firing system in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002l

ELO TEXT: Given a mission, a demolitions training area, demolition tools, explosives, personal protective equipment (PPE) and references, prime the charge in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1002m

ELO TEXT: Given a mission, a demolitions training area, demolition tools, explosives, personal protective equipment (PPE) and references, place the charge in accordance with MCRP 3-17.7L Explosives and Demolitions and applicable references.

ELO: 1302-DEMO-1002n



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ELO TEXT: Given a mission, a demolitions training area, demolition tools, explosives, personal protective equipment (PPE) and references, initiate detonation of charge in accordance with MCRP 3-17.7L Explosives and Demolitions and applicable references.

TASK: 1302-DEMO-1003 DESC:

TLO: 1302-DEMO-1003

TLO TEXT: Provided a mission, a designated area, personnel, demolition tools, explosives, improvised materials, and references, engage targets with expedient demolitions to produce the desired effect on the target per the mission requirements in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1003a

ELO TEXT: Given a type of expedient demolition charge and references, select in writing the required materials necessary to construct the charge in accordance with MCRP 3-17.7L Explosives and Demolitions and MCRP 3-17A Engineer Field Data.

ELO: 1302-DEMO-1003b

ELO TEXT: Given a type of expedient demolition charge, necessary materials and references, identify in writing the amount of explosives required to construct the charge in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1003c

ELO TEXT: Given a type of expedient demolition charge, a demolition target and references, describe in writing the placement of the charge in relation to the target that will produce the desired effect on the target in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-DEMO-1003d

ELO TEXT: Given a mission, a demolitions training area with targets, improvised materials, demolition tools, explosives, personal protective equipment (PPE), references, and as a member of a team, engage a target with an expedient shaped charge in accordance with MCRP 3-17.7L Explosives and Demolitions and MCRP 3-17A Engineer Field Data.

ELO: 1302-DEMO-1003e

ELO TEXT: Given a mission, a demolitions training area with targets, improvised materials, demolition tools, explosives, personal protective equipment (PPE), references, and as a member of a team, engage a target with an expedient platter charge in accordance with MCRP 3-17.7L Explosives and Demolitions and MCRP 3-17A Engineer Field Data.

ELO: 1302-DEMO-1003f

ELO TEXT: Given a mission, a demolitions training area with targets, improvised materials, demolition tools, explosives, personal protective equipment (PPE), references, and as a member of a team, engage a target with an expedient claymore charge in accordance with MCRP 3-17.7L Explosives and Demolitions and MCRP 3-17A Engineer Field Data.

ELO: 1302-DEMO-1003g

ELO TEXT: Given a mission, a demolitions training area with targets, improvised materials, demolition tools, explosives, personal protective equipment (PPE), references, and as a member of a team, engage a target with a grape shot directional charge in accordance with MCRP 3-17.7L Explosives and Demolitions and MCRP 3-17A Engineer Field Data.



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ELO: 1302-DEMO-1003h

ELO TEXT: Given a mission, a demolitions training area with targets, improvised materials, demolition tools, explosives, personal protective equipment (PPE), references, and as a member of a team, engage a target with an omni charge in accordance with MCRP 3-17.7L Explosives and Demolitions and MCRP 3-17A Engineer Field Data.

ELO: 1302-DEMO-1003i

ELO TEXT: Given a mission, a demolitions training area with targets, improvised materials, demolition tools, explosives, personal protective equipment (PPE), references, and as a member of a team, engage a target with an expedient bangalore torpedo in accordance with MCRP 3-17.7L Explosives and Demolitions and MCRP 3-17A Engineer Field Data.

TASK: 1302-DEMO-1004 DESC:

TLO: 1302-DEMO-1004

TLO TEXT: Without Explosive Ordnance Disposal (EOD) support readily available, given a tactical scenario, commander's intent, map, explosives, captured enemy ammunition (CEA), and references, plan destruction of Captured Enemy Ammunition (CEA) to successfully destroy the CEA in accordance with the commander's intent, mission requirements and MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1302-DEMO-1004a

ELO TEXT: Given a tactical scenario, commander's intent, a map, explosives, CEA and references, identify captured enemy ammunition that fall within the engineer scope for destruction in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations.

ELO: 1302-DEMO-1004b

ELO TEXT: Given a tactical scenario, commander's intent, a map, explosives, CEA and references, determine minimum safe stand-off distances in accordance with MCRP 3-17.7L Explosives and Demolitions and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations.

ELO: 1302-DEMO-1004c

ELO TEXT: Given a tactical scenario, commander's intent, a map, explosives, CEA and references, conduct required coordination with higher headquarters and adjacent units in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations.

ELO: 1302-DEMO-1004d

ELO TEXT: Given a tactical scenario, commander's intent, a map, explosives, CEA and references, conduct Operational Risk Assessments in accordance with USMC ORM guidelines and other applicable references.

ELO: 1302-DEMO-1004e

ELO TEXT: Given a tactical scenario, commander's intent, a map, explosives, CEA and references, plan for the emergency destruction of captured enemy ammunition in accordance with the commander's intent and in support of the concept of operations in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations.



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DUTY: 1302-EOPS DESC: Engineer Operations

TASK: 1302-EOPS-1001 DESC:

TLO: 1302-EOPS-1001

TLO TEXT: Provided construction drawings, blueprints, specifications, writing materials, a calculator, and the reference, design concrete mix to meet strength specifications described in the concrete structure design and the construction standards in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1001a

ELO TEXT: Provided a horizontal construction mission, a map, construction standards, operations order and references, analyze project specifications, blueprints, and construction directives for a concrete project so that the requirements will be met as outlined in the concept of operations and in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1001b

ELO TEXT: Given a list of Portland cement types, design specifications, environmental conditions, time constraints and the reference, select in writing the most suitable Portland cement based on the environmental conditions while satisfying the criteria of the design specifications in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1001c

ELO TEXT: Given design specifications, select in writing the water-cement ratio required to meet the design specifications in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1001d

ELO TEXT: Given design specifications, a list of available aggregates and references, select in writing required aggregates required to meet the design specifications in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1001e

ELO TEXT: Given design specifications and the reference, proportion concrete mixture to satisfy the design criteria and in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1001f

ELO TEXT: Given design specifications, concrete mixing equipment, proportioned concrete mix per design specifications, and the reference, determine mixing proportions per batch in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1001g

ELO TEXT: Given design specifications, concrete mixing equipment, proportioned concrete mix per design specifications, and the reference, determine mixing batch time based on size of mixer being used in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1001h

ELO TEXT: Given design specifications, a batch of concrete, a slump cone, a rod, a measuring device, a concrete pan, a trowel and the reference, determine the slump to verify the suitability of the batch per the design specifications and in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1001i



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ELO TEXT: Given design specifications, concrete mixing equipment, proportioned concrete mix, and the reference, determine water adjustments needed per batch due to existing moisture condition of aggregate(s) in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1001j

ELO TEXT: Given design specifications, blue prints, adjusted concrete mix proportions, and reference, calculate concrete materials (cement, sand, gravel and water) required for the project per design specifications and in accordance with MCRP 3-17.7D Concrete and Masonry.

TASK: 1302-EOPS-1002 DESC:

TLO: 1302-EOPS-1002

TLO TEXT: Given construction standards, commander's intent, concept of operations, task organized personnel and equipment, and references, design concrete structures to specify type of materials to be used, proper spacing of all components, and quantity and type of material required for finished structures capable of supporting all loads considered in accordance with the specifications and MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1002a

ELO TEXT: Given a construction directive, specifications, a list of cement types and the reference, identify the requirements for concrete footer/slab (materials, placement, strength, durability, etc) to meet the specifications of the construction directive in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1002b

ELO TEXT: Given a construction directive and the reference, determine the slab classification to meet the specifications of the construction directive in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1002c

ELO TEXT: Given a construction directive and the reference, select the appropriate slump to meet the specifications of a concrete slab in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1002d

ELO TEXT: Given a construction directive and the reference, determine the amount/type of reinforcement material required to meet the specifications of the concrete footer/slab construction in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1002e

ELO TEXT: Given a construction directive and the reference, determine the amount of concrete required to meet the specifications of the concrete footer/slab construction in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1002f

ELO TEXT: Given a construction directive and the reference, determine the amount/type of reinforcement material required to meet the specifications of the concrete wall construction in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1002g

ELO TEXT: Given a construction directive and the reference, determine the amount of concrete required to meet the specifications of the concrete wall construction in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1002h



LEARNING OBJECTIVE REPORT

ELO TEXT: Given a construction directive and the reference, determine the amount/type of concrete blocks required to meet the specifications of the concrete block construction in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1002i

ELO TEXT: Given a construction directive and the reference, determine the amount of reinforcement material is required to meet the specifications of a reinforced concrete block wall construction in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1002j

ELO TEXT: Given a construction directive and the reference, determine the amount of mortar mix is required for concrete block construction per design specifications and in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1002k

ELO TEXT: Given a construction directive and the reference, estimate the bill of materials for a concrete/concrete block construction project per design specifications and in accordance with MCRP 3-17.7D Concrete and Masonry.

TASK: 1302-EOPS-1003 DESC:

TLO: 1302-EOPS-1003

TLO TEXT: Given construction standards and specifications, concrete structure design, commander's intent, concept of operations, task organized personnel and equipment, and references, design concrete forms to support all dead loads and live loads and meet standards in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1003a

ELO TEXT: Given the types of concrete forms and reference, identify the required components of each type of concrete form per the MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1003b

ELO TEXT: Given the type of concrete form, a batch of concrete, an ambient air temperature, a rate of placement, and references, determine the hydrostatic fluid pressure exerted on the form in accordance with MCRP 3-17.7D Concrete and Masonry.

ELO: 1302-EOPS-1003c

ELO TEXT: Given the type of concrete form, P(max) and reference, determine form component(s) spacing so that the form will not fail during placement and curing of the concrete and in accordance with MCRP 3-17.7D Concrete and Masonry.

TASK: 1302-EOPS-1004 DESC:

TLO: 1302-EOPS-1004

TLO TEXT: Given a tactical situation, an operations order, an airfield/landing zone requiring repair, and references, plan airfield damage repair (ADR Operations) to ensure the airfield is operationally capable in compliance with the concept of operations in accordance with MCRP 3-17.7B Design of Theater of Operations - Airfields and Helipads.

ELO: 1302-EOPS-1004a

ELO TEXT: Given a description of airfield damage that includes drawings or photographs of damaged areas, critical dimensions, airfield specifications and references, state the procedures to perform damage assessment in accordance with MCRP 3-17.7B Design of Theater of Operations - Airfields and Helipads.



LEARNING OBJECTIVE REPORT

ELO: 1302-EOPS-1004b

ELO TEXT: Given a selected Minimum Operating Strip (MOS) of a damage airfield from higher headquarters, airfield specifications and references, conduct damage assessment required to restore the MOS to operational capability in accordance with MCRP 3-17.7B Design of Theater of Operations - Airfields and Helipads.

ELO: 1302-EOPS-1004c

ELO TEXT: Given a description of airfield damage that includes drawings or photographs of damaged areas, critical dimensions, airfield specifications, a completed damage assessment, specific repair methods and references, estimate the resources required to restore the MOS to operational capability in accordance with MCRP 3-17.7B Design of Theater of Operations - Airfields and Helipads.

ELO: 1302-EOPS-1004d

ELO TEXT: Given an Airfield Damage Repair (ADR) kit with SL-3 components, identify the components of the ADR kit per the technical manual.

TASK: 1302-EOPS-1005 DESC:

TLO: 1302-EOPS-1005

TLO TEXT: Given a tactical situation, a map, an operations order, specific number of personnel, equipment, and facilities, and references, develop mobile electric power distribution/redistribution plan to meet or exceed requirements outlined in the concept of operations in accordance with MCRP 3-17.7K Theater of Operations Electrical Systems.

ELO: 1302-EOPS-1005a

ELO TEXT: Given a tactical situation; a schematic; an operations order; specific number of personnel, equipment, and facilities to be supported with power, a notional table of equipment (T/E) and references, estimate generator requirements to support operations in accordance with MCRP 3-17.7K Theater of Operations Electrical Systems.

ELO: 1302-EOPS-1005b

ELO TEXT: Given a tactical situation; a schematic; an operations order; specific number of personnel, equipment, and facilities to be supported with power, a notional table of equipment (T/E) and references, select generator sites in accordance with commander's intent and MCRP 3-17.7K Theater of Operations Electrical Systems.

ELO: 1302-EOPS-1005c

ELO TEXT: Given a tactical situation; a schematic; an operations order; specific number of personnel, equipment, and facilities to be supported with power, a notional table of equipment (T/E) and references, select appropriate Mobile Electric Power (MEP) generator in accordance with MCRP 3-17.7K Theater of Operations Electrical Systems and applicable power using equipment.

ELO: 1302-EOPS-1005d

ELO TEXT: Given a tactical situation; a schematic; an operations order; specific number of personnel, equipment, and facilities to be supported with power, a notional table of equipment (T/E) and references, identify components of the Mobile Electric Power Distribution System (MEPDIS) in accordance with MCRP 3-17.7K Theater of Operations Electrical Systems and applicable technical manuals.

TASK: 1302-EOPS-1006 DESC:

TLO: 1302-EOPS-1006



COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

TLO TEXT: Given a tactical situation, a map, an operations order, specific number of personnel, equipment, and facilities, and references, develop field water distribution system to meet or exceed requirements outlined in the concept of operations and in accordance with MCRP 4-11.6A Water Supply in Theaters of Operations.

ELO: 1302-EOPS-1006a

ELO TEXT: Given a water site/report and the references, determine a proper location for a water point in accordance with MCRP 4-11.6A Water Supply in Theaters of Operations.

ELO: 1302-EOPS-1006b

ELO TEXT: Given a list of hygiene equipment and the references, identify the capabilities of hygiene equipment in accordance with MCRP 4-11.6A Water Supply in Theaters of Operations and TM 11275-15.3_ Principle Technical Characteristics of U.S. Marine Corps Engineer Equipment.

ELO: 1302-EOPS-1006c

ELO TEXT: Given a list of hygiene equipment and the references, identify the support requirements for the equipment in accordance with MCRP 4-11.6A Water Supply in Theaters of Operations.

ELO: 1302-EOPS-1006d

ELO TEXT: Given a number of Marines to support and the references, determine field sanitation requirements in accordance with MCRP 4-11.6A Water Supply in Theaters of Operations.

ELO: 1302-EOPS-1006e

ELO TEXT: Given a number of Marines to support and the references, determine daily water requirements in accordance with MCRP 4-11.6A Water Supply in Theaters of Operations.

TASK: 1302-EOPS-1007 DESC:

TLO: 1302-EOPS-1007

TLO TEXT: Provided an operations order, arrange external support for engineer projects/operations to provide all required support for a project or operation per the concept of operations and the commander's intent.

ELO: 1302-EOPS-1007a

ELO TEXT: Provided an operations order, identify engineer units to provide all required support for a project or operation per the concept of operations, commander's intent and MCWP 3-17 Engineer Operations.

ELO: 1302-EOPS-1007b

ELO TEXT: Provided an operations order, identify missions of engineer units to provide all required support for a project or operation per the concept of operations, commander's intent and JP 3-34 Engineer Doctrine for Joint Operations.

ELO: 1302-EOPS-1007c

ELO TEXT: Provided an operations order, coordinate with engineer units to provide all required support for a project or operation per the concept of operations, commander's intent and JP 3-34 Engineer Doctrine for Joint Operations.

ELO: 1302-EOPS-1007d

ELO TEXT: Provided an operations order, coordinate with engineer units to provide all required support for engineer planning per the concept of operations, commander's intent and MCWP 5-1 Marine Corps Planning Process (MCP).



LEARNING OBJECTIVE REPORT

ELO: 1302-EOPS-1007e

ELO TEXT: Provided an operations order, coordinate with engineer units to provide all required support for gap crossing per the concept of operations, commander's intent and JP 3-34 Engineer Doctrine for Joint Operations.

ELO: 1302-EOPS-1007f

ELO TEXT: Provided an operations order, identify capabilities of engineer units to provide all required support for obstacle construction per the concept of operations, commander's intent and JP 3-34 Engineer Doctrine for Joint Operations.

ELO: 1302-EOPS-1007g

ELO TEXT: Provided an operations order, coordinate with engineer units to provide all required support for base camp construction per the concept of operations, commander's intent and JP 3-34 Engineer Doctrine for Joint Operations.

TASK: 1302-EOPS-1008 DESC:

TLO: 1302-EOPS-1008

TLO TEXT: Given the requirement to conduct live fire training, approved range, valid RSO card, Class V, target material, personal protective equipment (PPE), and references, conduct range operations to complete required training without injury to personnel and equipment and in accordance with AR 385-63/DA PAM 385-63/MCO 3570.1B Range Safety.

ELO: 1302-EOPS-1008a

ELO TEXT: Given a notional live fire range, RSO card, Class V, target material, personal protective equipment (PPE) and references, conduct range operations on an established range (notional) to complete required training in accordance with AR 385-63/DA PAM 385-63/MCO 3570.1B Range Safety.

ELO: 1302-EOPS-1008b

ELO TEXT: Given an area to conduct a proposed live fire range, materials and references, establish a range to conduct operations to complete required live fire training in accordance with AR 385-63/DA PAM 385-63/MCO 3570.1B Range Safety.

ELO: 1302-EOPS-1008c

ELO TEXT: Given a requirement to conduct a live fire range, a list of Class V material, target material, personal protective equipment (PPE) and references, develop a shot/live fire plan to complete required training in accordance with AR 385-63/DA PAM 385-63/MCO 3570.1B Range Safety.

ELO: 1302-EOPS-1008d

ELO TEXT: Given a requirement to conduct a live fire range, notional RSO card, Class V material or weapons, target material, personal protective equipment (PPE) and references, identify and establish the required support to conduct range operations to complete required training in accordance with AR 385-63/DA PAM 385-63/MCO 3570.1B Range Safety.

ELO: 1302-EOPS-1008e

ELO TEXT: Given a notional live fire range and references, identify post operation requirements when range operations are completed in accordance with AR 385-63/DA PAM 385-63/MCO 3570.1B Range Safety.

TASK: 1302-EOPS-1009 DESC:

TLO: 1302-EOPS-1009



COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

TLO TEXT: Provided a mission, construction drawings/blueprints, specifications, a calculator, writing materials, activity estimate sheets, and the reference, establish project/operation schedules to detail all personnel, equipment, and materials necessary to accomplish the mission while establishing a defined duration for each subtask and the overall project/operation and graphically depict the schedule in accordance with MCRP 3-17.7F Project Management.

ELO: 1302-EOPS-1009a

ELO TEXT: Given a construction directive, project specifications and references, create an activities list in accordance with MCRP 3-17.7F Project Management.

ELO: 1302-EOPS-1009b

ELO TEXT: Given a construction directive, a completed activity list and the reference, create a logic diagram/precedence network in accordance with MCRP 3-17.7F Project Management.

ELO: 1302-EOPS-1009c

ELO TEXT: Given a construction directive, a completed activity list, a completed logic diagram and the reference, estimate individual activity durations in accordance with MCRP 3-17.7F Project Management.

ELO: 1302-EOPS-1009d

ELO TEXT: Given a construction directive, a completed activity list, a completed logic diagram, completed activity estimate sheets and the reference, create a project schedule in accordance with MCRP 3-17.7F Project Management.

ELO: 1302-EOPS-1009e

ELO TEXT: Given a completed project schedule, notional TO/TE constraints and the reference, perform resource leveling in accordance with MCRP 3-17.7F Project Management.

ELO: 1302-EOPS-1009f

ELO TEXT: Given a completed project schedule, notional progress reports and the reference, update the project schedule in accordance with MCRP 3-17.7F Project Management.



COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

DUTY: 1302-FUEL DESC: Bulk Fuel

TASK: 1302-FUEL-1001 DESC:

TLO: 1302-FUEL-1001

TLO TEXT: Given a tactical situation, a map, operations order, task organization of equipment and personnel, and references, plan fuel operations to meet requirements as outlined in the concept of operations in accordance with MCWP 4-11.6 Petroleum and Water Logistics Operation.

ELO: 1302-FUEL-1001a

ELO TEXT: Given a tactical scenario, a map, concept of operations, commander's intent, task organization of equipment and personnel, and references, identify the capabilities of units which handle bulk fuel to meet requirements as outlined in the concept of operations and in accordance with MCWP 4-11.6 Petroleum and Water Logistics Operation.

ELO: 1302-FUEL-1001b

ELO TEXT: Given a tactical scenario, a map, concept of operations, commander's intent, task organization of equipment and personnel, and references, identify the equipment used to receive, store, transport, and distribute bulk fuel to meet requirements as outlined in the concept of operations, the commander's intent and in accordance with MCWP 4-11.6 Petroleum and Water Logistics Operation.

ELO: 1302-FUEL-1001c

ELO TEXT: Given a tactical scenario, a map, concept of operations, commander's intent, task organization of equipment and personnel, and references, prepare a fuel operations site plan to meet requirements as outlined in the concept of operations, the commander's intent and in accordance with MCWP 4-11.6 Petroleum and Water Logistics Operation.

ELO: 1302-FUEL-1001d

ELO TEXT: Given a tactical scenario, a map, concept of operations, commander's intent, task organization of equipment and personnel, and references, identify assets required to support fuel operations to meet requirements as outlined in the concept of operations, the commander's intent and in accordance with MCWP 4-11.6 Petroleum and Water Logistics Operation.

ELO: 1302-FUEL-1001e

ELO TEXT: Given a tactical scenario, a map, concept of operations, commander's intent, task organization of equipment and personnel, and references, identify requirements to monitor fuel storage and distribution per the MCWP 4-11.6 Petroleum and Water Logistics Operation.



COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

DUTY: 1302-HORZ DESC: Horizontal Construction

TASK: 1302-HORZ-1001 DESC:

TLO: 1302-HORZ-1001

TLO TEXT: Provided a horizontal construction mission, a map, construction standards, operations order, and references, plan a horizontal construction project to meet requirements as outlined in the concept of operations and in accordance with MCWP 3-17 Engineer Operatons.

ELO: 1302-HORZ-1001a

ELO TEXT: Provided a horizontal construction mission, a map, construction standards, operations order and references, conduct an engineer estimate to support a mobility/countermobility mission per the operation order in accordance with MCWP 3-17 Engineer Operations, MCWP 3-17.8 Combine Arms Mobility, MCWP 3-17.5 Combine Arms Counter mobility Operations and MCWP 5-1 Marine Corps Planning Process (MCP).

ELO: 1302-HORZ-1001b

ELO TEXT: Provided a horizontal construction mission, a map, construction standards, operations order and references, conduct an engineer estimate to support a survivability mission per the operation order in accordance with MCWP 3-17 Engineer Operations, MCWP 3-17.6 Survivability and MCWP 5-1 Marine Corps Planning Process (MCP).

ELO: 1302-HORZ-1001c

ELO TEXT: Provided a horizontal construction mission, a notional site, construction standards, and references, determine soil state to determine site conditions (in-place, loose and compacted) for estimating heavy equipment production in accordance with MCRP 3-17.7A Planning and Design of Roads, Airfields and Heliports in Theater of Operations - Road Design.

ELO: 1302-HORZ-1001d

ELO TEXT: Given a horizontal construction scenario, a blank scraper production estimation worksheet and references, calculate scraper production in accordance with MCRP 3-17.7I Earthmoving Operations.

ELO: 1302-HORZ-1001e

ELO TEXT: Given a horizontal construction scenario, a blank dump truck production estimation worksheet and references, calculate dump truck production in accordance with MCRP 3-17.7I Earthmoving Operations.

ELO: 1302-HORZ-1001f

ELO TEXT: Given a horizontal construction scenario, a blank bulldozer production estimation worksheet and references, calculate bulldozer production in accordance with MCRP 3-17.7I Earthmoving Operations.

ELO: 1302-HORZ-1001g

ELO TEXT: Given a horizontal construction scenario, appropriate forms, and references, calculate for tree clearing operations in accordance with MCRP 3-17.7I Earthmoving Operations.

ELO: 1302-HORZ-1001h

ELO TEXT: Given a horizontal construction scenario, a blank scoop loader production estimate worksheet, and references, calculate scoop loader production in accordance with MCRP 3-17.7I Earthmoving Operations.

ELO: 1302-HORZ-1001i



LEARNING OBJECTIVE REPORT

ELO TEXT: Given a horizontal construction scenario, a blank backhoe/excavator production estimate worksheet, and references, calculate backhoe/excavator production in accordance with MCRP 3-17.7I Earthmoving Operations.

ELO: 1302-HORZ-1001j

ELO TEXT: Given a horizontal construction scenario, a blank grader production estimate worksheet, and references, calculate grader production in accordance with MCRP 3-17.7I Earthmoving Operations.

ELO: 1302-HORZ-1001k

ELO TEXT: Given a horizontal construction scenario, a blank compactor production estimate worksheet, and references, calculate compactor production to achieve desired sub-base compaction in accordance with MCRP 3-17.7I Earthmoving Operations.

TASK: 1302-HORZ-1002 DESC:

TLO: 1302-HORZ-1002

TLO TEXT: Given a mission, commander's intent, tactical situation, a map, task organized equipment and personnel, design specifications, construction materials and references, plan construction of drainage systems to intercept, collect, and remove surface water flowing toward a designated area from adjacent areas in accordance with MCRP 3-17.7A Design of Theater of Operations - Road Design.

ELO: 1302-HORZ-1002a

ELO TEXT: Given an existing all-weather stream, the requirement for a drainage structure and references, calculate peak storm water runoff to provide adequate drainage in accordance with MCRP 3-17.7A Design of Theater of Operations - Road Design.

ELO: 1302-HORZ-1002b

ELO TEXT: Given dimensions of existing all-weather waterway, the requirement for a drainage structure and references, calculate the area of waterway / area of design to provide adequate drainage in accordance with MCRP 3-17.7A Design of Theater of Operations - Road Design.

ELO: 1302-HORZ-1002c

ELO TEXT: Given the requirement for a drainage structure, fill depth and references, determine the maximum diameter (Dmax) of culvert allowed for drainage structure in accordance with MCRP 3-17.7A Design of Theater of Operations - Road Design.

ELO: 1302-HORZ-1002d

ELO TEXT: Given the requirement for a drainage structure, area of waterway, maximum diameter (Dmax) of culvert and references, calculate the number of culverts required for drainage structure to handle the volume of water in accordance with MCRP 3-17.7A Design of Theater of Operations - Road Design.

ELO: 1302-HORZ-1002e

ELO TEXT: Given the requirement for a drainage structure, volume of water to be drained and references, design a drainage system to provide adequate drainage in accordance with MCRP 3-17.7A Design of Theater of Operations - Road Design.

ELO: 1302-HORZ-1002f

ELO TEXT: Given the requirement for a drainage structure and references, determine the appropriate erosion control for drainage system (ditches, culverts, etc.) to maintain structure integrity in accordance with MCRP 3-17.7A Design of Theater of Operations - Road Design.



COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

TASK: 1302-HORZ-1003 DESC:

TLO: 1302-HORZ-1003

TLO TEXT: Given an unidentified soil sample, an SL-3 complete soil test kit and references, conduct a field soil analysis to obtain a two-letter USCS classification, CBR, and moisture content in accordance with MCRP 3-17.7G Military Soils Engineering.

ELO: 1302-HORZ-1003a

ELO TEXT: Given an unidentified soil sample and references, perform field identification tests to determine properties to classify soil using the Unified Soil Classification System (USCS) per MCRP 3-17.7G Military Soils Engineering.

ELO: 1302-HORZ-1003b

ELO TEXT: Given an unidentified soil sample, a soils test kit and references, test soil sample using soils test kit to determine properties to classify soil using the Unified Soil Classification System (USCS) per MCRP 3-17.7G Military Soils Engineering.

ELO: 1302-HORZ-1003c

ELO TEXT: Given an unidentified soil sample, a soils test kit and references, determine percentage of gravel of the soil sample in accordance with MCRP 3-17.7G Military Soils Engineering.

ELO: 1302-HORZ-1003d

ELO TEXT: Given an unidentified soil sample, a soils test kit and references, determine the optimum moisture content (OMC) of the soil sample in accordance with MCRP 3-17.7G Military Soils Engineering.

ELO: 1302-HORZ-1003e

ELO TEXT: Given an unidentified soil sample, a soils test kit and references, classify the soil to obtain a two-letter USCS classification and CBR rating in accordance with MCRP 3-17.7G Military Soils Engineering.

ELO: 1302-HORZ-1003f

ELO TEXT: Given a soil sample and references, determine soil stabilization method/technique to meet suggested CBR rating in accordance with MCRP 3-17.7G Military Soils Engineering.



COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

DUTY: 1302-MANT DESC: Maintenance

TASK: 1302-MANT-1001 DESC:

TLO: 1302-MANT-1001

TLO TEXT: Given itemized equipment, manage a Consolidated Memorandum Receipt (CMR) to maintain accountability of itemized equipment and associated documentation in accordance with MCO 4400.150_ Consumer-Level Supply Policy Manual.

ELO: 1302-MANT-1001a

ELO TEXT: Given notional equipment and a itemized equipment list, conduct a Consolidated Memorandum Receipt (CMR) inventory to maintain accountability of itemized equipment and associated documentation in accordance with MCO 4400.150_ Consumer-Level Supply Policy Manual.

ELO: 1302-MANT-1001b

ELO TEXT: Given notional equipment with quantity discrepancies, state procedures to submit discrepancies to a Consolidated Memorandum Receipt (CMR) inventory to maintain accountability of itemized equipment in accordance with MCO 4400.150_ Consumer-Level Supply Policy Manual.

ELO: 1302-MANT-1001c

ELO TEXT: Given notional itemized equipment, state procedures to maintain accountability of itemized equipment through use of a Memorandum of Record/ECR and associated documentation in accordance with MCO 4400.150_ Consumer-Level Supply Policy Manual.

ELO: 1302-MANT-1001d

ELO TEXT: Given notional itemized equipment, state procedures to track records and forms to maintain accountability of itemized equipment and associated documentation in accordance with MCO 4400.150_ Consumer-Level Supply Policy Manual.

TASK: 1302-MANT-1002 DESC:

TLO: 1302-MANT-1002

TLO TEXT: Given an engineer task organization of engineer equipment and personnel, technical manuals, appropriate maintenance reports and references, manage an organizational maintenance program to identify discrepancies and processing errors within the maintenance cycle; account for gear/materiel on CMR; track deadlined or readiness reportable.

ELO: 1302-MANT-1002a

ELO TEXT: Given the requirement, state the levels/principle elements of maintenance/maintenance management in accordance with MCO P4790.2_ MIMMS Field Procedure Manual and other applicable references.

ELO: 1302-MANT-1002b

ELO TEXT: Given the requirement and references, identify in writing the policies and procedures to maintain a publications library for equipment, sets, chests, and kits in accordance with MCO P5215.17_ The Marine Corps Technical Publications System and other applicable references.

ELO: 1302-MANT-1002c

ELO TEXT: Given the requirement and applicable references, identify in writing the purpose/capability of Global Combat Support System-Marine Corps (GCSS-MC) per applicable references.



LEARNING OBJECTIVE REPORT

ELO: 1302-MANT-1002d

ELO TEXT: Given the requirement and applicable references, identify in writing the different types of Service Requests (SR) input transactions in Global Combat Support System-Marine Corps (GCSS-MC) in accordance with type/condition of equipment, sets, chests and kits, and applicable references.

ELO: 1302-MANT-1002e

ELO TEXT: Given the requirement and applicable references, review Global Combat Support System-Marine Corps (GCSS-MC) reports to track maintenance phases of equipment in the preventive maintenance (PM)/corrective maintenance (CM) cycle in accordance with applicable references.

ELO: 1302-MANT-1002f

ELO TEXT: Given the requirement and applicable references, review Global Combat Support System-Marine Corps (GCSS-MC) reports to identify discrepancies within the maintenance cycle in accordance with applicable references.

ELO: 1302-MANT-1002g

ELO TEXT: Given the requirement and applicable references, state in writing the procedures to manage a calibration program in accordance with applicable references.

ELO: 1302-MANT-1002h

ELO TEXT: Given the requirement and applicable references, state in writing the procedures to establish a Pre-Expended Bin (PEB) in accordance with applicable references.

ELO: 1302-MANT-1002i

ELO TEXT: Given the requirement and applicable references, state in writing the procedures to conduct reconciliation with MMO/supply in accordance with applicable references.



COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

DUTY: 1302-MOBL DESC: Mobility

TASK: 1302-MOBL-1001 DESC:

TLO: 1302-MOBL-1001

TLO TEXT: Given a tactical situation, a map, an operations order, task organization of equipment and personnel, and references, plan a military road to meet or exceed traffic support requirements in the concept of operations.

ELO: 1302-MOBL-1001a

ELO TEXT: Given a tactical situation, a map, an operations order, and references, compute average daily traffic (ADR) / design hourly volume (DHV) to determine type and class of road required for a military road to meet or exceed traffic support requirements in the concept of operations in accordance with MCRP 3-17.7A Planning and Design of Roads, Airfields and Heliports in Theater of Operations - Road Design.

ELO: 1302-MOBL-1001b

ELO TEXT: Given a tactical situation, a map, an operations order, and references, establish geometric controls required for a military road to meet or exceed traffic support requirements in the concept of operations in accordance with MCRP 3-17.7A Planning and Design of Roads, Airfields and Heliports in Theater of Operations - Road Design.

ELO: 1302-MOBL-1001c

ELO TEXT: Given a tactical situation, a map, an operations order, task organization of equipment and personnel, and references, employ structural design criteria to plan a military road to meet or exceed traffic support requirements in the concept of operations in accordance with MCRP 3-17.7A Planning and Design of Roads, Airfields and Heliports in Theater of Operations - Road Design.

ELO: 1302-MOBL-1001d

ELO TEXT: Given a tactical situation, a map, an operations order, task organization of equipment and personnel, and references, develop a maintenance and repair plan for a military road to support the traffic requirements in the concept of operations in accordance with MCRP 3-17.7A Planning and Design of Roads, Airfields and Heliports in Theater of Operations - Road Design.

TASK: 1302-MOBL-1002 DESC:

TLO: 1302-MOBL-1002

TLO TEXT: Given a tactical situation, a route to be swept, map, task organized personnel and equipment, an operations order, and references, plan dismounted route sweep operations to ensure sufficient mobility is planned to support the concept of operations and the commander's intent in accordance with MCRP 3-17.2D Explosive Hazards Operations.

ELO: 1302-MOBL-1002a

ELO TEXT: Given an explosive hazard and references, identify the characteristics of the explosive hazard (mine, IED, munition, etc...) per the MCRP 3-17.2D Explosive Hazards Operations.

ELO: 1302-MOBL-1002b

ELO TEXT: Given a route and area clearance mission, and all necessary tools and equipment, and without references, visually identify the probable location for an explosive hazard emplacement per threat doctrine and in accordance with MCRP 3-17.2D Explosive Hazards Operations.



LEARNING OBJECTIVE REPORT

ELO: 1302-MOBL-1002c

ELO TEXT: Given a route and area clearance mission, all necessary tools and equipment, and without references, determine the task organization to conduct dismounted route and area clearance operations in accordance with MCRP 3-17.2D Explosive Hazards Operations.

ELO: 1302-MOBL-1002d

ELO TEXT: Given a route and area clearance mission, all necessary tools and equipment, and without references, identify the specific equipment for task organized teams to conduct dismounted route and area clearance operations in accordance with MCRP 3-17.2D Explosive Hazards Operations.

ELO: 1302-MOBL-1002e

ELO TEXT: Given a route and area clearance mission, all necessary tools and equipment, and without references, employ engineer tools and equipment to locate, identify and mark explosive hazards and obstacles during the conduct of dismounted route and area clearance operations in accordance with MCRP 3-17.2D Explosive Hazards Operations.

ELO: 1302-MOBL-1002f

ELO TEXT: Given a route and area clearance mission, all necessary tools and equipment, and without references, employ military explosives to reduce/destroy explosive hazards and obstacles as required during the conduct of dismounted route and area clearance operations in accordance with MCRP 3-17.2D Explosive Hazards Operations.

TASK: 1302-MOBL-1003 DESC:

TLO: 1302-MOBL-1003

TLO TEXT: Given a tactical situation, a route/area to be cleared, task organized personnel and clearance equipment, a map, an operation order, and references, plan Route and Area Clearance (RAAC) operations to assure mobility in support of the concept of operations in accordance with MCRP 3-17.2D Explosive Hazards Operations.

ELO: 1302-MOBL-1003a

ELO TEXT: Without the aid of references, define the tenets of the IED-D framework per the MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1302-MOBL-1003b

ELO TEXT: Without the aid of references, identify the route clearance team roles and responsibilities per the MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1302-MOBL-1003c

ELO TEXT: Without the aid of references, identify the two phases of route and area clearance per the MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1302-MOBL-1003d

ELO TEXT: Given a route/area to be cleared and without references, determine the task organization to conduct route and area clearance in accordance with MCRP 3-17.2D Explosive Hazards Operations and MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1302-MOBL-1003e



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ELO TEXT: Given a route/area to be cleared and without references, determine specific equipment required for the task organized teams to conduct route and area clearance in accordance with MCRP 3-17.2D Explosive Hazards Operations and MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1302-MOBL-1003f

ELO TEXT: Given the requirement to locate explosive hazards, explain mine detector operations to safely locate explosive hazards/caches in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCRP 3-17.2D Explosive Hazard Operations and MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1003g

ELO TEXT: Given the requirement to locate explosive hazards, explain metal detector operations to safely locate explosive hazards/caches in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1003h

ELO TEXT: With the aid of references, identify the components of a vehicle-mounted mine detector set per the applicable technical manual.

ELO: 1302-MOBL-1003i

ELO TEXT: Without the aid of references, state the capabilities of the CAT III Heavy Mine-Protected Clearance vehicle per the applicable technical manual.

ELO: 1302-MOBL-1003j

ELO TEXT: Given a scenario, a route clearance patrol order, plan route sweep operations to ensure sufficient mobility to support the concept of operations and the commanders intent in accordance with MCRP 3-17.2D Explosive Hazards Operation and MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1302-MOBL-1003k

ELO TEXT: Given a route/area to be cleared and without references, visually identify the probable location of explosive/non-explosive obstacles in accordance with MCRP 3-17.2D Explosive Hazards Operation, MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations, and MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1003l

ELO TEXT: Given a tactical scenario, route clearance equipment, and personnel, conduct route and area clearance to identify and reduce explosive/non-explosive hazards per the concept of operations, commander's intent and in accordance with MCRP 3-17.2D Explosive Hazards Operation, MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations, and MCWP 3-17.3 MAGTF Breaching Operations.

TASK: 1302-MOBL-1004 DESC:

TLO: 1302-MOBL-1004

TLO TEXT: Given a tactical situation, with Explosive Ordnance Disposal (EOD) support unavailable within mission parameters, given relevant combat engineer T/E, appropriate Class V items, and references, conduct mobility operations in an Improvised Explosive Device (IED) environment to ensure mobility by reducing 100% of IEDs located with no injuries to personnel or equipment in accordance with MCIP 3-17.01 Combined Arms IED



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ELO: 1302-MOBL-1004a

ELO TEXT: Given a tactical scenario, an operations order, and references, identify probable Improvised Explosive Devices (IED) locations via map/intel data that present a mobility threat to maneuver forces per the MCIP 3-17.01 Combined Arms IED Defeat Operations.

ELO: 1302-MOBL-1004b

ELO TEXT: Given a tactical scenario, an operations order, relevant Combat Engineer T/O & T/E, and references, recommend to the supported unit commander the relevant go/no go criteria for mobility operations in an IED environment in accordance with MCIP 3-17.01 Combined Arms IED Defeat Operations.

ELO: 1302-MOBL-1004c

ELO TEXT: Given a tactical scenario, an operations order, relevant Combat Engineer T/O & T/E, and references, identify the necessary site control measures that will prevent additional secondary attacks from enemy combatants associated to an IED attack in accordance with MCIP 3-17.01 Combined Arms IED Defeat Operations.

ELO: 1302-MOBL-1004d

ELO TEXT: Given a tactical scenario, an operations order, relevant Combat Engineer T/O & T/E, and references, submit the appropriate reports during mobility operations in an IED environment in accordance with MCIP 3-17.01 Combined Arms IED Defeat Operations.

TASK: 1302-MOBL-1005 DESC:

TLO: 1302-MOBL-1005

TLO TEXT: Given a tactical situation, an operations order, a map, task organized personnel and equipment, and references, plan breaching of a complex obstacle to establish a sufficient number of cleared lanes for assured mobility in accordance with the commander's intent and MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1005a

ELO TEXT: Given a tactical breaching scenario and without references, identify in writing breaching fundamentals that conform to MAGTF breaching doctrine per the MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1005b

ELO TEXT: Given a tactical breaching scenario and without references, identify in writing probable enemy countermobility capabilities per the MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1005c

ELO TEXT: Given a tactical breaching scenario, concept of operations, commander's intent, and without reference, identify in writing explosive breaching assets which can be used to execute breaching operations in accordance with the commander's intent, the concept of operations and MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1005d

ELO TEXT: Given a tactical breaching scenario, concept of operations, commander's intent, and without reference, identify in writing non-explosive breaching assets which can be used to execute breaching operations in accordance with the commander's intent, the concept of operations and MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1005e



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ELO TEXT: Given a tactical mobility scenario involving EHs, an operations order and commander's intent, conduct Intelligence Preparation of the Battlefield (IPB) in an EH environment to identify factors affecting the momentum of maneuver elements in accordance with the commander's intent, MCRP 2-3A Intelligence Preparation of the Battlefield/Battlespace and MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1005f

ELO TEXT: Given a tactical mobility scenario involving IEDs, an operations order and commander's intent, task organize engineer personnel and equipment to prepare for mobility operations in support of the maneuver element in accordance with commander's intent and MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1005g

ELO TEXT: Given a tactical scenario involving an explosive obstacle, a Anti-Personnel Obstacle Breaching System (APOBS), engineer tools and equipment, and personal protective equipment, employ a APOBS to create a mobility lane through an explosive obstacle ensuring safe passage of personnel and equipment through the obstacle in accordance with TM 013750-13&P Operator's Manual MK-7 Mod 1 Anti-Personnel Obstacle Breaching System (APOBS) and MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1005h

ELO TEXT: Given a tactical scenario involving an explosive obstacle (minefield), a MK155 Mine Clearance Linear Charge (MCLIC) trailer, Class V, engineer tools and equipment, and personal protective equipment, employ a MCLIC to create a mobility lane through a minefield ensuring safe passage of vehicles, personnel and equipment through the obstacle in accordance with TM 08982A-14&P/2B Operator's Manual for MK 155 Mine Clearance System and MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1005i

ELO TEXT: Given a tactical scenario involving an enemy stronghold and references, manage Shoulder Launched Multi-purpose Assault Weapon (SMAW) employment to support assault forces during breaching operations per commander's intent and in accordance with TM 08673A-10/1 Launcher, Assault Rocket 83MM (SMAW) MK153 Mod 0 and MCWP 3-17.3 MAGTF Breaching Operations.

TASK: 1302-MOBL-1006 DESC:

TLO: 1302-MOBL-1006

TLO TEXT: Provided a mission, a designated area, personnel, demolitions tools, explosives, improvised materials, and references, conduct assault breaching into buildings to secure passage through the target while limiting the amount of collateral damage and ensuring that the assault force gains access.

ELO: 1302-MOBL-1006a

ELO TEXT: Given a designated region of the world, a targeted structure and references, identify building construction to determine appropriate breaching technique per the NSWC DL TR-3714 Urban Building Characteristics.

ELO: 1302-MOBL-1006b

ELO TEXT: Given a target, an explosive charge and references, compute the Net Explosive Weight (NEW) per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-MOBL-1006c

ELO TEXT: Provided a mission, an explosive charge, a target and references, identify the



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principles and theory of explosive detonation to determine information on the effects of employing an explosive charge per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-MOBL-1006d

ELO TEXT: Given an explosive charge, a designated target, any other relevant information and material, and references, identify appropriate protective measures to ensure personal and unit safety based on target type and the explosive charge employed per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-MOBL-1006e

ELO TEXT: Given an explosive charge, a designated target, any other relevant information and material, and references, identify appropriate breacher's brief to ensure personal/unit safety based on target type, mission, and the explosive charge employed per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-MOBL-1006f

ELO TEXT: Given a designated target, a list of mechanical breaching tools and references, select the appropriate mechanical breaching tool that will result in 100% penetration of the target per the MCWP 3-35.3 Military Operations on Urbanized Terrain.

ELO: 1302-MOBL-1006g

ELO TEXT: Given a tactical urban mobility scenario, commander's intent, a designated target, an Assault Breacher's Kit, military explosives and references, select an explosive charge that will result in 100% penetration of the target while limiting the amount of collateral damage and which allows entry in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-MOBL-1006h

ELO TEXT: Given a tactical urban mobility scenario, commander's intent, a designated target, an Assault Breacher's Kit, military explosives and references, construct an explosive charge that will result in 100% penetration of the target while limiting the amount of collateral damage and which allows entry in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-MOBL-1006i

ELO TEXT: Given a tactical urban mobility scenario, commander's intent, a designated target, an Assault Breacher's Kit, military explosives and references, detonate an explosive charge that will result in 100% penetration of the target while limiting the amount of collateral damage and which allows entry in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-MOBL-1006j

ELO TEXT: Given a designated target, a 12 gauge shotgun, appropriate ammunition and any other necessary materials, prepare the shotgun for breaching per the applicable technical manual.

ELO: 1302-MOBL-1006k

ELO TEXT: Given a designated target, a 12 gauge shotgun, appropriate ammunition and any other necessary materials, employ the shotgun which results in 100% penetration of the target, while limiting the amount of collateral damage in accordance with applicable references.

ELO: 1302-MOBL-1006l

ELO TEXT: Provided a mission, a designated target, and references, utilize the breacher's logbook to make all appropriate entries prior, during and after the conduct of assault breaching into buildings to serve as a record to document all charges



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constructed and employed by the breacher and the charge effects on the target, both successful and unsuccessful in accordance with MCRP 3-17.7L Explosive and Demolitions and Guidebook to Assault Entry Techniques Volume I & II.

TASK: 1302-MOBL-1007 DESC:

TLO: 1302-MOBL-1007

TLO TEXT: Provided a mission, a designated area, demolitions tools, explosives, improvised materials, heavy equipment, and references, plan the reduction of strongpoints and structures so that the strongpoint or structure is reduced with minimal/no damage to friendly equipment or personnel in accordance with MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1007a

ELO TEXT: Given a tactical situation, a map, a terrain model, necessary equipment and references, evaluate the target and surrounding area to determine the appropriate means of reduction to support the commander's intent and the concept of operations per the MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1007b

ELO TEXT: Given a tactical situation, a map, a terrain model, necessary equipment and references, determine the effects of breaching operations on the target per the MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1007c

ELO TEXT: Given a tactical situation, a map, a terrain model, necessary equipment and references, identify safe locations for friendly forces during breaching operations per the MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1302-MOBL-1007d

ELO TEXT: Given a tactical situation, a map, a terrain model, necessary equipment and references, task organize personnel and equipment to reduce strongpoints and structures per the MCWP 3-17.3 MAGTF Breaching Operations.

TASK: 1302-MOBL-1008 DESC:

TLO: 1302-MOBL-1008

TLO TEXT: Given an operating environment, suspected explosive hazards, combat engineer equipment, personal protective equipment and references, operate a robot to locate, confirm and mark the explosive hazard(s) per the operator's manual.

ELO: 1302-MOBL-1008a

ELO TEXT: Given a robot and without references, categorize in writing the characteristics of a robot in accordance with appropriate technical manual.

ELO: 1302-MOBL-1008b

ELO TEXT: Given a robot, a pre-operation checklist and references, conduct pre-operational checks and procedures in accordance with appropriate technical manual.

ELO: 1302-MOBL-1008c

ELO TEXT: Given a robot, an operating environment consisting of different types of terrain, man-made and natural obstacles, and without references, determine a robot's best avenue of approach to a hazard in accordance with appropriate technical manual and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1008d



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ELO TEXT: Given a robot, a scenario, an operating environment consisting of different types of terrain, man-made and natural obstacles, and without references, operate a robot in different environments and conditions in accordance with appropriate technical manual.

ELO: 1302-MOBL-1008e

ELO TEXT: Given a robot, a scenario, an operating environment consisting of different types of terrain, man-made and natural obstacles, and without references, perform immediate/remedial actions in order to restore robot to operable conditions in accordance with appropriate technical manual.

ELO: 1302-MOBL-1008f

ELO TEXT: Given a robot, a scenario, an operating environment consisting of different types of terrain, man-made and natural obstacles, and without references, conduct robotic reconnaissance on suspected objects in accordance with appropriate technical manual and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1008g

ELO TEXT: Given a robot, a scenario, an operating environment consisting of different types of terrain, man-made and natural obstacles, and without references, recover robot to a safe area in accordance with appropriate technical manual and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1008h

ELO TEXT: Given a robot, a post-operation checklist and references, conduct post-operational checks and procedures in accordance with appropriate technical manual.

TASK: 1302-MOBL-1009 DESC:

TLO: 1302-MOBL-1009

TLO TEXT: Given an operating environment, suspected explosive hazards, combat engineer equipment, field protective equipment and country handbooks/ORDATA II, identify Explosive Hazards (EH) to identify category, country of origin, type of function, safeties and conditions.

ELO: 1302-MOBL-1009a

ELO TEXT: With aid of references, recognize symbols of an explosive hazard in accordance with applicable references.

ELO: 1302-MOBL-1009b

ELO TEXT: Without aid of references, identify markers and indicators of explosive hazards in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1009c

ELO TEXT: Provided an Improvised Explosive Device (IED) course and without references, identify the characteristics of IEDs in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1009d

ELO TEXT: Shown types of boobytraps and without references, identify the characteristics and components of boobytraps in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1009e



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ELO TEXT: Shown types of thrown munitions and without references, identify the characteristics and components of thrown munitions in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1009f

ELO TEXT: Shown types of projected munitions and without references, identify the characteristics and components of projected munitions in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1009g

ELO TEXT: Shown types of dropped munitions and without references, identify the characteristics and components of dropped munitions in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1009h

ELO TEXT: Shown types of placed munitions and without references, identify the characteristics and components of placed munitions in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1009i

ELO TEXT: Shown types of chemicals used in home made explosives (HME) and references, identify chemicals and components of HME in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1302-MOBL-1009j

ELO TEXT: With aid of references, submit required data of explosive hazards in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations.

TASK: 1302-MOBL-1010 DESC:

TLO: 1302-MOBL-1010

TLO TEXT: Given an operating environment, a positively identified explosive hazard, combat engineer equipment, Class V, personal protective equipment, commander's decision and references, reduce Explosive Hazards (EH) by calculating, placing and detonating an explosive charge that will result in the reduction of the explosive hazard and allow for assured mobility.

ELO: 1302-MOBL-1010a

ELO TEXT: With aid of references, define the explosive hazard decision matrix in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1302-MOBL-1010b

ELO TEXT: Provided an Improvised Explosive Device trail and without references, execute the 5 C's once contact is made with an explosive hazard in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1302-MOBL-1010c

ELO TEXT: Provided an Improvised Explosive Device trail, engineer equipment and materials, and without references, employ protective measures in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations.



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ELO: 1302-MOBL-1010d

ELO TEXT: Provided an Improvised Explosive Device trail, engineer equipment and materials, and without references, employ blast mitigation measures in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1302-MOBL-1010e

ELO TEXT: Given a tactical scenario and references, determine the required equipment for reduction of explosive hazards in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1010f

ELO TEXT: Given a tactical scenario and references, determine what Class V is needed for reduction of an explosive hazard in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1010g

ELO TEXT: Given equipment, materials and without reference, prepare a firing system in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-MOBL-1010h

ELO TEXT: Given equipment, materials, Class V and without reference, construct a charge in order to reduce an explosive hazard in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-MOBL-1010i

ELO TEXT: With the aid of references, follow the steps of preparing for detonation in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-MOBL-1010j

ELO TEXT: Given engineer equipment, materials, training aids, and without reference, place a charge (manually and remotely) in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1010k

ELO TEXT: With the aid of references, perform immediate action for misfires of explosive charges in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCRP 3-17.7L Explosives and Demolitions.

ELO: 1302-MOBL-1010l

ELO TEXT: Without the aid of references, confirm the results of the reduction of the explosive hazard in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1010m

ELO TEXT: Without the aid of references, retrieve remnants and components of destroyed munitions for intelligence gathering in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

ELO: 1302-MOBL-1010n



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ELO TEXT: With aid of reference, submit required data of the reduction of explosive hazards in accordance with MCIP 3-17.01 Combine Arms Improvised Explosive Device (IED) Defeat Operations and MCWP 3-17.2D Explosive Hazard Operations.

TASK: 1302-MOBL-1011 DESC:

TLO: 1302-MOBL-1011

TLO TEXT: Given a tactical situation, a map, an operations order, task organization of equipment and personnel, and references, design a ribbon bridge/raft to ensure design standards are met to support the concept of operations in accordance with TM 11518A-OR Improved Ribbon Bridge (IRB) Operators Manual.

ELO: 1302-MOBL-1011a

ELO TEXT: Given a tactical scenario and reference, list in writing the characteristics of the ribbon bridge/raft per the TM 11518A-OR Improved Ribbon Bridge (IRB) Operators Manual.

ELO: 1302-MOBL-1011b

ELO TEXT: Given a tactical scenario and references, select a suitable crossing/assembly area for the ribbon bridge/raft in accordance with TM 11518A-OR Improved Ribbon Bridge (IRB) Operators Manual and MCWP 3-17.8 Combine Arms Mobility Operations.

ELO: 1302-MOBL-1011c

ELO TEXT: Given a tactical scenario, an operation order, commander's intent and references, select a crossing means using the ribbon bridge/raft and Bridge Erection Boats (BEB) that will satisfy the scenario's traffic in accordance with TM 11518A-OR Improved Ribbon Bridge (IRB) Operators Manual and MCWP 3-17.8 Combine Arms Mobility Operations.

ELO: 1302-MOBL-1011d

ELO TEXT: Given a tactical scenario, an operation order, commander's intent and references, plan the construction of a ribbonbridge/raft that will utilize the minimum number of resources in the shortest amount of time to satisfy the scenario's mobility requirements in accordance with TM 11518A-OR Improved Ribbon Bridge (IRB) Operators Manual and MCWP 3-17.8 Combine Arms Mobility Operations.

TASK: 1302-MOBL-1012 DESC:

TLO: 1302-MOBL-1012

TLO TEXT: Given a tactical situation, a map, an operations order, military load classification requirements, and references, design a Medium Girder Bridge (MGB) to meet or exceed the military load classification required supporting the concept of operation's traffic in accordance with TM 5-5420-212-12 Medium Girder Bridge.

ELO: 1302-MOBL-1012a

ELO TEXT: Given a tactical scenario and reference, select a suitable bridge site that satisfies Medium Girder Bridge (MGB) criteria per the TM 5-5420-212-12 Medium Girder Bridge.

ELO: 1302-MOBL-1012b

ELO TEXT: Given a tactical scenario, critical dimensions, a military load class (MLC) and references, select a Medium Girder Bridge (MGB) configuration to support the required military load class per the TM 5-5420-212-12 Medium Girder Bridge.



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ELO: 1302-MOBL-1012c

ELO TEXT: Given a tactical scenario, a Medium Girder Bridge (MGB) configuration and references, state the design/procedures to lay out a MGB construction site per the TM 5-5420-212-12 Medium Girder Bridge.

ELO: 1302-MOBL-1012d

ELO TEXT: Given a tactical scenario, a Medium Girder Bridge (MGB) configuration and references, determine the logistical/resource requirements to construct an MGB per the TM 5-5420-212-12 Medium Girder Bridge.

ELO: 1302-MOBL-1012e

ELO TEXT: Given a tactical scenario requiring a tactical bridge with an military load classification (MLC) of 40 or better, Medium Girder Bridge (MGB) components, crossing site and references, construct an MGB to allow a maneuver force to cross the gap and in accordance with TM 5-5420-212-12 Medium Girder Bridge.

TASK: 1302-MOBL-1013 DESC:

TLO: 1302-MOBL-1013

TLO TEXT: Given a tactical situation, a map, an operations order, a wet or dry gap, military load requirements, and references, design a non-standard bridge to meet or exceed the military load classification required to support the concept of operations/traffic in accordance with MCRP 3-17.1B Military Non-Standard Bridging.

ELO: 1302-MOBL-1013a

ELO TEXT: Given a list of nonstandard bridge components, identify the function of each component per the MCRP 3-17.1B Military Non-Standard Bridging.

ELO: 1302-MOBL-1013b

ELO TEXT: Given a requirement to span a gap, a military load classification, gap size and references, complete bridge design formulas so that both superstructure and substructure satisfy the military load class requirement per the MCRP 3-17.1B Military Non-Standard Bridging.

ELO: 1302-MOBL-1013c

ELO TEXT: Given a requirement to span a gap, completed design formulas, list of available materials and references, complete bridge design (graphically) to illustrate all components, detail design drawings, and materials to be used for the superstructure and substructure in accordance with MCRP 3-17.1B Military Non-Standard Bridging.

TASK: 1302-MOBL-1014 DESC:

TLO: 1302-MOBL-1014

TLO TEXT: Given a tactical situation, a map, a bridge, and references, classify a bridge to determine the military load classification with consideration to width and overhead clearance restrictions in accordance with MCRP 3-17.1B Military Non-Standard Bridging.

ELO: 1302-MOBL-1014a

ELO TEXT: Given a tactical situation, critical bridge dimensions, GTA 05-07-013, a calculator and references, classify the bridge to determine the military load classification, noting any special restrictions in accordance with MCWP 3-17.4 Engineer Reconnaissance and MCWP 3-17.1B Military Non-Standard Bridging.

ELO: 1302-MOBL-1014b



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ELO TEXT: Given the classification of a bridge, graphically depict the military load classification sign in accordance with MCWP 3-17.1B Military Non-Standard Bridging.

TASK: 1302-MOBL-1015 DESC:

TLO: 1302-MOBL-1015

TLO TEXT: Given a tactical situation, operations order with river crossing annex, and references, plan engineer aspects of a gap crossing operation to maintain maneuver force mobility in accordance with the concept of operations and MCWP 3-17.8 Combined Arms Mobility Operations.

ELO: 1302-MOBL-1015a

ELO TEXT: Given a tactical situation, a map, an operation order, commander's intent and references, identify the three categories of river crossing operations per the MCWP 3-17.8 Combined Arms Mobility Operations.

ELO: 1302-MOBL-1015b

ELO TEXT: Given a tactical situation, a map, an operation order, commander's intent and references, identify planning considerations for the commander based on troops, fire support, logistics, the enemy, space, and terrain per the MCWP 3-17.8 Combined Arms Mobility Operations.

ELO: 1302-MOBL-1015c

ELO TEXT: Given a tactical situation, a map, an operation order, commander's intent and references, select appropriate crossing means for a gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations.

ELO: 1302-MOBL-1015d

ELO TEXT: Given a tactical situation, a map, an operation order, commander's intent and references, identify other required information pertaining to the enemy for a gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations.

ELO: 1302-MOBL-1015e

ELO TEXT: Given a tactical situation, a map, an operation order, commander's intent and references, identify engineer reconnaissance requirements for a gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations.

ELO: 1302-MOBL-1015f

ELO TEXT: Given a tactical situation, a map, an operation order, commander's intent and references, recommend task organization for a crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations.

ELO: 1302-MOBL-1015g

ELO TEXT: Given a tactical situation, a map, an operation order, commander's intent and references, identify the phases of a river crossing operation with associated engineer tasks in accordance with MCWP 3-17.8 Combined Arms Mobility Operations.

ELO: 1302-MOBL-1015h

ELO TEXT: Given a tactical situation, a map, an operation order, commander's intent and references, identify tactical control measures used during a gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations.

TASK: 1302-MOBL-1016 DESC:



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LEARNING OBJECTIVE REPORT

TLO: 1302-MOBL-1016

TLO TEXT: Given a tactical situation, a map, operations order, airfield configuration (if required), aircraft type and density, and references, plan construction of an expeditionary airfield/landing zone to meet requirements of the concept of operations in accordance with MCRP 3-17.7B Design of Theater of Operations-Airfields and Helipads (Volume 2).

ELO: 1302-MOBL-1016a

ELO TEXT: Given a tactical scenario, map, training area, operations order, aircraft type and density, and references, evaluate/reconnoiter terrain for use of a landing zone to meet requirements for type of aircraft, the concept of operations and in accordance with MCRP 3-17.7B Design of Theater of Operations-Airfields and Helipads (Volume 2).

ELO: 1302-MOBL-1016b

ELO TEXT: Given a requirement to construct a landing zone, reconnaissance information, appropriate DA form(s), map, aircraft type and density, and references, design a landing zone to meet mobility requirements for type of aircraft, the concept of operations and in accordance with MCRP 3-17.7B Design of Theater of Operations-Airfields and Helipads (Volume 2).

ELO: 1302-MOBL-1016c

ELO TEXT: With the aid of references, explain the AM-2 Matting systems in accordance with MCRP 3-17.7B Design of Theater of Operations-Airfields and Helipads (Volume 2).



COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

DUTY: 1302-PLAN DESC: Planning

TASK: 1302-PLAN-1001 DESC:

TLO: 1302-PLAN-1001

TLO TEXT: Given an operating environment, higher headquarters' order, commander's guidance and the reference, while implementing the orders process, participate in the Marine Corps Planning Process (MCP) to produce plans and orders products which support the accomplishment of the mission and commander's intent and in accordance with MCWP 5-1 Marine Corps Planning Process.

ELO: 1302-PLAN-1001a

ELO TEXT: Given an operating environment, higher headquarters' order, commander's guidance and the reference, while implementing the orders process, identify the commander's intent while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process.

ELO: 1302-PLAN-1001b

ELO TEXT: Given an operating environment, higher headquarters' order, commander's guidance and the reference, while implementing the orders process, conduct a mission analysis (METT-T) to identify all engineer requirements while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process.

ELO: 1302-PLAN-1001c

ELO TEXT: Given an operating environment, higher headquarters' order, commander's guidance and the references, while implementing the orders process, develop required products while participating in the Marine Corps Planning Process (MCP) and in accordance with MCRP 3-17B Engineer Forms and Reports, and MCWP 5-1 Marine Corps Planning Process.

ELO: 1302-PLAN-1001d

ELO TEXT: Given an operating environment, higher headquarters' order, commander's guidance and the reference, while implementing the orders process, identify command and support relationships to accomplish a mission while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process.

ELO: 1302-PLAN-1001e

ELO TEXT: Given an operating environment, higher headquarters' order, commander's guidance and the reference, while implementing the orders process, transition from planning to accomplish a mission while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process.

TASK: 1302-PLAN-1002 DESC:

TLO: 1302-PLAN-1002

TLO TEXT: Given a tactical situation, a map, operations order, size of the unit to occupy base camp(s), and references, plan a base camp to meet unit requirements outlined in the concept of operations and in accordance with MCRP 3-17.7N Base Camps.

ELO: 1302-PLAN-1002a

ELO TEXT: Given a tactical situation, a map, an operations order, commander's intent, the size of a unit to occupy a base camp and references, determine a suitable location for the base camp site on a map that satisfies the commander's intent in accordance



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with MCRP 3-17.7N Base Camps.

ELO: 1302-PLAN-1002b

ELO TEXT: Given a tactical situation, a map, an operations order, commander's intent, the size of a unit to occupy a base camp and references, determine the types of facilities required to support the unit per the commander's intent and in accordance with MCRP 3-17.7N Base Camps.

ELO: 1302-PLAN-1002c

ELO TEXT: Given a tactical situation, an operations order, commander's intent, the size of a unit to occupy a base camp, poster board, markers or pencils, and references, portray graphically the location of facilities within the base camp site so that operational risk is minimized while meeting the provisions of the concept of operations and the commander's intent per the MCRP 3-17.7N Base Camps and other applicable references.

ELO: 1302-PLAN-1002d

ELO TEXT: Given a tactical situation, an operations order, commander's intent, a notional base camp plan and references, establish support relationships to facilitate the construction of the base camp site while remaining within the guidelines of the concept of operations and the commander's intent in accordance with MCRP 3-17.7N Base Camps and other applicable references.

ELO: 1302-PLAN-1002e

ELO TEXT: Given a tactical situation, an operations order, commander's intent and references, utilize the critical path method to plan a base camp layout to facilitate the construction of the base camp site while remaining within the guidelines of the concept of operations and the commander's intent in accordance with MCRP 3-17.7N Base Camps and MCRP 3-17.7F Project Management.



COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

DUTY: 1302-RECN DESC: RECONNAISSANCE

TASK: 1302-RECN-1001 DESC:

TLO: 1302-RECN-1001

TLO TEXT: Given a tactical situation, maps, an operations order, and references, conduct engineer reconnaissance operations to ensure the completed reconnaissance mission meets requirements of the operations order in accordance with MCWP 3-17.4 Engineer Reconnaissance.

ELO: 1302-RECN-1001a

ELO TEXT: Given a mission to conduct engineer reconnaissance, a map, protractor, GTA 5-2-5, and references, determine the reconnaissance requirements to ensure the completed reconnaissance mission meets requirements of the operations order in accordance with MCWP 3-17.4 Engineer Reconnaissance.

ELO: 1302-RECN-1001b

ELO TEXT: Given a mission to conduct engineer reconnaissance, a map, protractor, compass, measuring equipment, GTA 5-2-5, blank engineer forms, and references, classify a road to identify mobility requirements and identifying all restrictive features on DA Form 1248 in accordance with MCWP 3-17.4 Engineer Reconnaissance.

ELO: 1302-RECN-1001c

ELO TEXT: Given a mission to conduct engineer reconnaissance, an area with established roadway networks (surface/unsurfaced), map, protractor, compass, measuring equipment, GTA 5-2-5, blank engineer forms, and references, classify a route using the route classification formula to identify mobility requirements and identifying all restrictive features on route in accordance with MCWP 3-17.4 Engineer Reconnaissance.

ELO: 1302-RECN-1001d

ELO TEXT: Given a mission to conduct engineer reconnaissance, a training area with stream, map, protractor, compass, measuring equipment, GTA 5-2-5, blank engineer forms, and references, evaluate a ford site to identify mobility requirements in accordance with MCWP 3-17.4 Engineer Reconnaissance.

ELO: 1302-RECN-1001e

ELO TEXT: Given a mission to conduct engineer reconnaissance, a training area with river, map, protractor, compass, measuring equipment, GTA 5-2-5, blank engineer forms, and references, evaluate a ferry site to identify mobility requirements in accordance with MCWP 3-17.4 Engineer Reconnaissance.

ELO: 1302-RECN-1001f

ELO TEXT: Given a mission to conduct engineer reconnaissance, a training area with non-standard bridges, map, protractor, compass, measuring equipment, GTA 5-2-5, blank engineer forms, and references, evaluate bridges to identify mobility requirements in accordance with MCWP 3-17.4 Engineer Reconnaissance.

ELO: 1302-RECN-1001g

ELO TEXT: Given a mission to conduct engineer reconnaissance, a training area with a tunnel/overhead obstruction, map, protractor, compass, measuring equipment, GTA 5-2-5, blank engineer forms, and references, evaluate a tunnel/overhead obstruction to identify mobility requirements in accordance with MCWP 3-17.4 Engineer Reconnaissance.

ELO: 1302-RECN-1001h

ELO TEXT: Given a mission to conduct engineer reconnaissance, a training area with urban



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facilities/structures, map, protractor, compass, measuring equipment, GTA 5-2-5, blank engineer forms, and references, evaluate an urban area/infrastructure to identify engineer/facilities requirements in accordance with MCWP 3-17.4 Engineer Reconnaissance.

ELO: 1302-RECN-1001i

ELO TEXT: Given a mission to conduct engineer reconnaissance, a training area with a river/stream, map, protractor, compass, measuring equipment, GTA 5-2-5, blank engineer forms, and references, evaluate a river/stream to identify mobility requirements in accordance with MCWP 3-17.4 Engineer Reconnaissance.

ELO: 1302-RECN-1001j

ELO TEXT: Given completed engineer forms and references, create a map overlay utilizing correct engineer reconnaissance symbols to identify engineer reconnaissance conducted per mission requirements and in accordance with MCWP 3-17.4 Engineer Reconnaissance.

COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

DUTY: 1302-SURV DESC: Survivability

TASK: 1302-SURV-1001 DESC:

TLO: 1302-SURV-1001

TLO TEXT: Given a force protection requirement and references, design survivability positions to counteract the known effects of enemy direct and indirect fire weapons in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1001a

ELO TEXT: Given a force protection requirement and references, design the appropriate bunker/shelter/fighting position to counteract the known effects of enemy direct, indirect fire, and explosive weapons in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1001b

ELO TEXT: Given a force protection requirement and references, determine the resources (personnel and equipment) to construct positions (field fortification and urban) to counteract the known effects of enemy direct fire, indirect fire, and explosive weapons in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1001c

ELO TEXT: Given a force protection requirement and references, determine the materials needed to construct positions (field fortification and urban) to counteract the known effects of enemy direct fire, indirect fire, and explosive weapons in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1001d

ELO TEXT: Given a force protection requirement and references, determine the time (manhours/equipment hours) needed to construct positions (field fortification and urban) to counteract the known effects of enemy direct fire, indirect fire, and explosive weapons in accordance with MCWP 3-17.6 Survivability.

TASK: 1302-SURV-1002 DESC:

TLO: 1302-SURV-1002

TLO TEXT: Given a tactical situation, an operations order, a map, and references, plan construction of blast mitigation measures to reduce damage to occupied structures while meeting unit requirements outlined in the concept of operations in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1002a

ELO TEXT: Given a tactical situation in an urban environment, an operations order, a map, required personnel and equipment, commander's intent and references, determine the possible effects on structures from an enemy attack in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1002b

ELO TEXT: Given a tactical situation in an urban environment, an operations order, a map, required personnel and equipment, commander's intent and references, recommend appropriate usage of structures by friendly forces to enhance survivability in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1002c

ELO TEXT: Given a tactical situation in an urban environment, an operations order, a map, required personnel and equipment, commander's intent and references, determine



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the required stand-off to mitigate the effects of the enemy threat in accordance with MCWP 3-17.6 Survivability.

TASK: 1302-SURV-1003 DESC:

TLO: 1302-SURV-1003

TLO TEXT: Given a tactical situation, a map, operations order, unit's survivability requirements, and references, prepare a survivability plan to utilize engineer assets consistent with the enemy threat identified, the concept of operations and in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1003a

ELO TEXT: Given a tactical situation, a map, operations order, commander's intent and references, recommend the location of a survivability site to maximize protective effects of terrain consistent with the commander's intent in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1003b

ELO TEXT: Given a tactical situation, a map, commander's intent, concept of survivability operations and references, determine the types of survivability positions required to counter enemy threat weapons in support of the concept of operations and consistent with the commander's intent in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1003c

ELO TEXT: Given a tactical scenario, a map, commander's intent, a T/E and references, prioritize survivability requirements to support the commander's intent in accordance with MCWP 3-17.6 Survivability.

TASK: 1302-SURV-1004 DESC:

TLO: 1302-SURV-1004

TLO TEXT: Given a tactical situation, an operations order, a map, and references, plan construction of an entry access control point as a part of a protective barrier plan to regulate traffic and enhance survivability to a degree that meets the unit requirements outlined in the concept of operations and in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1004a

ELO TEXT: Given a tactical situation, a map, commander's intent, concept of survivability operations and references, identify the requirements for an entry control point (ECP) in order to mitigate the effects of an enemy threat weapons from damaging occupied structures in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1004b

ELO TEXT: Given a tactical situation, a map, commander's intent, a location for a vehicle entry point and references, design an entry control point (ECP) to support the commander's intent and in accordance with MCWP 3-17.6 Survivability.

TASK: 1302-SURV-1005 DESC:

TLO: 1302-SURV-1005

TLO TEXT: Given a tactical situation, an operations order, a map, an occupied building and references, plan building hardening to meet unit requirements outlined in the concept of operations in accordance with MCWP 3-17.6 Survivability.



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ELO: 1302-SURV-1005a

ELO TEXT: Given a tactical situation, an operations order, a map, an area with existing structures and references, identify structures to be used for survivability positions that will meet unit requirements outlined in the concept of operations and in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1005b

ELO TEXT: Given a tactical situation, an operations order, a map, a structure to be used for a survivability position and references, determine any additional structural support for the building that will meet unit requirements outlined in the concept of operations and in accordance with MCWP 3-17.6 Survivability.

ELO: 1302-SURV-1005c

ELO TEXT: Given a tactical situation, an operations order, a map, a structure to be used for a survivability position and references, identify the preparation requirements of a structure to be used for a survivability position that will meet unit requirements outlined in the concept of operations and in accordance with MCWP 3-17.6 Survivability.



COMBAT ENGINEER OFFICER (WORKING)
LEARNING OBJECTIVE REPORT

DUTY: 1302-VERT DESC: Vertical Construction

TASK: 1302-VERT-1001 DESC:

TLO: 1302-VERT-1001

TLO TEXT: Given a tactical situation, a map, operations order, construction standards, task organized personnel and equipment, and references, plan a vertical construction project to meet requirements outlined in the concept of operations and the construction standards in accordance with MCRP 3-17.7C Carpentry.

ELO: 1302-VERT-1001a

ELO TEXT: Provided a vertical construction mission, a map, construction standards, operations order and references, analyze project specifications (blueprints, and construction directives) for all vertical construction project requirements so that the requirements will be met as outlined in the concept of operations and is in accordance with MCRP 3-17.7C Carpentry.

ELO: 1302-VERT-1001b

ELO TEXT: Given construction standards, woodrframe building structure design, commander's intent, concept of operations and references, identify wood frame structure components and their purpose in accordance with MCRP 3-17.7C Carpentry.

ELO: 1302-VERT-1001c

ELO TEXT: Given a construction directive, design drawings and references, determine the building layout process to ensure the structure's components (foundation and structure) meets the design specifications set forth in the construction directive and the design drawings in accordance with MCRP 3-17.7C Carpentry.

ELO: 1302-VERT-1001d

ELO TEXT: Given a construction directive, commander's intent and references, design temporary facility(s) to meet the specifications set forth in the construction directive, commander's intent and is in accordance with MCRP 3-17.7C Carpentry.

ELO: 1302-VERT-1001e

ELO TEXT: Given a construction directive, design drawings, a calculator, all necessary blank forms and references, develop a Bill of Materials (BOM) for a temporary facility to support the vertical construction mission outlined in the construction directive while keeping within established waste parameters in accordance with MCRP 3-17.7C Carpentry.

ELO: 1302-VERT-1001f

ELO TEXT: Given a construction directive, Bill of Material sheets from designed facilities, a calculator, all necessary blank forms and references, develop a consolidated materials list for a construction mission to annotate all quantity of materials needed in accordance with MCRP 3-17.7C Carpentry.

ELO: 1302-VERT-1001g

ELO TEXT: Given construction standards, structure design, commander's intent, concept of operations, personnel, equipment and references, determine the required engineer equipment to complete a vertical construction project to meet the requirements outlined in the construction standards and concept of operations in accordance with MCRP 3-17.7C Carpentry and other applicable references.

