

COMBAT ENGINEER NCO (WORKING)
LEARNING OBJECTIVE/OUTCOME REPORT

DUTY: 1371-CMOB DESC: Counter Mobility

TASK: 1371-CMOB-2001 DESC:

TLO: 1371-CMOB-2001

TLO TEXT: Provided an operations order, an area map, reconnaissance reports, personnel, engineer equipment and references, recommend obstacle placement to tie into existing natural or other manmade obstacles so that enemy movement/maneuvers are fixed, turned, blocked, or disrupted in support of the concept of operations per the commander's intent.

ELO: 1371-CMOB-2001a

ELO TEXT: Given a tactical scenario, an operation order, a map, and references, conduct METT-T analysis to identify the effects of existing obstacles on enemy maneuver elements per the MCWP 3-17.5 Combined Arms Obstacle Integration.

ELO: 1371-CMOB-2001b

ELO TEXT: Given a tactical scenario, an operation order, a map, and references, determine the type of obstacles required (expedient, deliberate and Vehicle Control Point) to support the obstacle intent per the MCWP 3-17.5 Combined Arms Obstacle Integration.

ELO: 1371-CMOB-2001c

ELO TEXT: Given a tactical scenario, an operation order, a map, and references, determine the intent of reinforcing obstacles (expedient, deliberate and Vehicle Control Point) in support of the commander's intent per the MCWP 3-17.5 Combined Arms Obstacle Integration.

ELO: 1371-CMOB-2001d

ELO TEXT: Given a tactical scenario, an operation order, a map, and references, determine the placement of reinforcing obstacles (expedient, deliberate and Vehicle Control Point) to support of the commander's intent per the MCWP 3-17.5 Combined Arms Obstacle Integration.

ELO: 1371-CMOB-2001e

ELO TEXT: Given a tactical scenario, an obstacle plan and reference, identify the logistical requirements needed to construct obstacles per the reference per the MCRP 3-17A Engineer Field Data.

ELO: 1371-CMOB-2001f

ELO TEXT: Given a tactical scenario, an obstacle plan and references, determine type of explosive obstacle needed per concept of operation, commander's intent and in accordance with the MCWP 3-17.5 Combined Arms Obstacle Integration.

ELO: 1371-CMOB-2001g

ELO TEXT: Given a tactical scenario, an obstacle plan, personnel, specified materials, engineer equipment and references, describe in writing the procedures to emplace explosive obstacles needed to fix, turn, block, or disrupt per concept of operation, commander's intent and in accordance with the MCWP 3-17.5 Combined Arms Obstacle Integration.

ELO: 1371-CMOB-2001h

ELO TEXT: Given a tactical scenario, an obstacle plan, personnel, engineer equipment, safeties, and references, describe in writing the procedures to properly recover obstacle(s) by returning emplaced area to natural state and accounting for safety of all personnel per concept of operation, commander's intent and in accordance with the MCWP 3-17.5 Combined Arms Obstacle Integration.

ELO: 1371-CMOB-2001i



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ELO TEXT: Given a tactical scenario, explosive obstacle data, applicable engineer forms and reports, protractor, ruler, and pencil, record explosive obstacle(s) data per MCRP 3-17B Engineer Forms and Reports.

TASK: 1371-CMOB-2003 DESC:

TLO: 1371-CMOB-2003

TLO TEXT: Given the proper authority to set booby traps, Class V, demolition tools, a blank DA Form 1355 and personal protective equipment (PPE), employ booby traps to slow the enemy's advance; deny the enemy use of facilities or material; warn of enemy approach; or deny the enemy use of terrain not covered by direct fire in accordance with MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1371-CMOB-2003a

ELO TEXT: Given an order to employ booby traps, a training scenario and a blank DA Form 1355, select locations for booby traps that will produce the maximum effect when activated per MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1371-CMOB-2003b

ELO TEXT: Given an order to employ booby traps/early warning devices and a training scenario, describe how to construct explosive/non-explosive booby traps or early warning devices per MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1371-CMOB-2003c

ELO TEXT: Given an order to employ booby traps/early warning devices, record booby traps/early warning devices per MCRP 3-17.2D Explosive Hazard Operations.

TASK: 1371-CMOB-2004 DESC:

TLO: 1371-CMOB-2004

TLO TEXT: Provided a mission, a bridge reconnaissance report, personnel, Class V, a demolition kit, protective field equipment and references, destroy bridges using explosives to ensure that the demolition results in either a gap that exceeds the enemy's assault bridging capability by 5 meters, or that leaves demolished components which are unable to provide sufficient bearing capacity for enemy assault breaching assets.

ELO: 1371-CMOB-2004a

ELO TEXT: Given a mission, bridge data and references, calculate the amount of explosives required to destroy a bridge abutment in accordance with MCRP 3-17.7L Explosive and Demolitions and MCRP 3-17A Engineer Field Data.

ELO: 1371-CMOB-2004b

ELO TEXT: Given a mission, bridge data and references, calculate the amount of explosives required to destroy an intermediate support in accordance with MCRP 3-17.7L Explosive and Demolitions and MCRP 3-17A Engineer Field Data.

ELO: 1371-CMOB-2004c

ELO TEXT: Given a mission, bridge data and references, calculate the amount of explosives required to destroy a bridge span in accordance with MCRP 3-17.7L Explosive and Demolitions and MCRP 3-17A Engineer Field Data.

ELO: 1371-CMOB-2004d

ELO TEXT: Given a mission, bridge data and references, determine an initiating system required to destroy a bridge span, intermediate support or abutment in accordance with MCRP 3-17.7L Explosive and Demolitions and MCRP 3-17A Engineer Field



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Data.

ELO: 1371-CMOB-2004e

ELO TEXT: Given a mission, bridge data and references, determine placement of explosives required to destroy a bridge span, intermediate support or abutment in accordance with MCRP 3-17.7L Explosive and Demolitions and MCRP 3-17A Engineer Field Data.

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DUTY: 1371-DEMO DESC: Demolitions, Munitions, and Specialized Demolitions

TASK: 1371-DEMO-2001 DESC:

TLO: 1371-DEMO-2001

TLO TEXT: Provided a target, demolitions tools and equipment, Class V, improvised materials, and protective field equipment, engage targets with expedient demolitions to produce the desired effect on the target equivalent to the effect of a similar conventional explosive or demolition charge.

ELO: 1371-DEMO-2001a

ELO TEXT: With the aid of references, explain the employment theory of each expedient demolition charge per the MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1371-DEMO-2001b

ELO TEXT: As a member of a team, given a mission, a demolitions training area with targets, demolition tools, explosives, improvised materials and references, engage a target with an expedient shaped charge in accordance with MCRP 3-17A Engineer Field Data.

ELO: 1371-DEMO-2001c

ELO TEXT: As a member of a team, given a mission, a demolitions training area with targets, demolition tools, explosives, improvised materials and references, engage a target with an expedient platter charge in accordance with MCRP 3-17A Engineer Field Data.

ELO: 1371-DEMO-2001d

ELO TEXT: As a member of a team, given a mission, a demolitions training area with targets, demolition tools, explosives, improvised materials and references, engage a target with an expedient claymore charge in accordance with MCRP 3-17A Engineer Field Data.

ELO: 1371-DEMO-2001e

ELO TEXT: As a member of a team, given a mission, a demolitions training area with targets, demolition tools, explosives, improvised materials and references, engage a target with a grape shot directional charge in accordance with MCRP 3-17A Engineer Field Data.

ELO: 1371-DEMO-2001f

ELO TEXT: As a member of a team, given a mission, a demolitions training area with targets, demolition tools, explosives, improvised materials and references, engage a target with an omni (360 degree) charge in accordance with MCRP 3-17A Engineer Field Data.

ELO: 1371-DEMO-2001g

ELO TEXT: Given a mission and references, explain in writing the procedure to engage a target with an expedient flame mine per the MCRP 3-17A Engineer Field Data.

ELO: 1371-DEMO-2001h

ELO TEXT: As a member of a team, given a mission, a demolitions training area with targets, demolition tools, explosives, improvised materials and references, engage a target with an expedient bangalore torpedo in accordance with MCRP 3-17A Engineer Field Data.

TASK: 1371-DEMO-2002 DESC:

TLO: 1371-DEMO-2002



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TLO TEXT: Given a mission to destroy or disable a target, demolition tools and equipment, Class V material, protective field equipment and references, use specialized explosives to produce the desired effect on the target per mission requirements.

ELO: 1371-DEMO-2002a

ELO TEXT: Without the aid of references, explain the employment theory of each specialized demolition charge per the SWO 60-AA-MMA-010 Demolition Materials.

ELO: 1371-DEMO-2002b

ELO TEXT: As a member of a team, given a mission, a demolitions training area with targets, demolitions tools, explosives and references, determine engagement of targets with specialized explosives per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2002c

ELO TEXT: As a member of a team, given a mission, a demolitions training area with targets, demolitions tools, explosives and references, engage targets with specialized explosives per the MCRP 3-17.7L Explosives and Demolitions.

TASK: 1371-DEMO-2003 DESC:

TLO: 1371-DEMO-2003

TLO TEXT: Given a breaching mission, and breacher's logbook, maintain a Breacher's Logbook to compile useful data as a reference for follow on breaching missions making all required entries and verifying the logbook accuracy.

ELO: 1371-DEMO-2003a

ELO TEXT: Given a breaching mission and references, compile all necessary information to complete entries into Breacher's Charge Logbook per the MCRP 3-17.7L Explosives and Demolitions and per the Volume I-Guidebook for Assault Entry Techniques.

ELO: 1371-DEMO-2003b

ELO TEXT: Given a breaching mission and references, complete the necessary data and drawings needed to breach a target into Breacher's Charge Logbook per the MCRP 3-17.7L Explosives and Demolitions and per the Volume I-Guidebook for Assault Entry Techniques.

ELO: 1371-DEMO-2003c

ELO TEXT: Given a breaching mission and references, report the successful breach/modifications information into Breacher's Charge Logbook for future use per the MCRP 3-17.7L Explosives and Demolitions and per the Volume I-Guidebook for Assault Entry Techniques.

TASK: 1371-DEMO-2004 DESC:

TLO: 1371-DEMO-2004

TLO TEXT: Given an explosive charge, a charge logbook, a calculator and references, compute the Net Explosive Weight (NEW) to determine safe blast and fragmentation distances for an explosive charge in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2004a

ELO TEXT: Without the aid of references, define Net Explosive Weight (NEW) verbatim per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2004b



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ELO TEXT: Given a type of explosive and references, determine the weight of the explosive in grains per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2004c

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

ELO: 1371-DEMO-2004d

ELO TEXT: Given a mission, target, explosives, any other necessary materials, computed Net Explosive Weight (NEW) and references, determine safe stand-off distance to ensure safety of all personnel per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2004e

ELO TEXT: Given a mission, target, explosives, any other necessary materials, computed Net Explosive Weight (NEW) and references, determine safe fragmentation distance to ensure safety of all personnel per the MCRP 3-17.7L Explosives and Demolitions.

TASK: 1371-DEMO-2005 DESC:

TLO: 1371-DEMO-2005

TLO TEXT: Given an explosive charge, a designated target, assorted tools, and personal protective equipment (PPE), take appropriate protective measures to ensure personnel safety during detonation based on target type, location, and the explosive charge employed in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2005a

ELO TEXT: Given a target, an explosive charge and references, identify the possible effects of detonation on the target and surrounding area per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2005b

ELO TEXT: Given a target, an explosive charge and references, identify the possible effects of detonation on the breach team per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2005c

ELO TEXT: Given a tactical scenario, select (from a list) appropriate personal protective equipment (PPE) to minimize risk of injury to the breach team per the MCRP 3-17.7L Explosives and Demolitions.

TASK: 1371-DEMO-2006 DESC:

TLO: 1371-DEMO-2006

TLO TEXT: Given a targeted structure, and references, identify building construction to determine an appropriate breaching technique in accordance with NSWC/DL TR-3714 Urban Building Characteristics.

ELO: 1371-DEMO-2006a

ELO TEXT: Given a multi-story target in a specified country, identify in writing the construction characteristics for each level which will allow for identification of appropriate breaching methods to ensure 100% penetration of the target and continuation of the mission per the NSWC/DL TR-3714 Urban Building Characteristics.

ELO: 1371-DEMO-2006b

ELO TEXT: Given a specified region of the world, identify in writing standardized construction



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characteristics which will allow for identification of appropriate breaching methods for inclusion in crisis planning or pre-operation SOPs, and which will ensure 100% penetration of the target and continuation of the mission per the NSWCDL TR-3714 Urban Building Characteristics.

ELO: 1371-DEMO-2006c

ELO TEXT: Given a target in a specified country, identify in writing regional construction standards/codes to determine appropriate breaching methods to ensure 100% penetration of the target and continuation of the mission per the NSWCDL TR-3714 Urban Building Characteristics.

TASK: 1371-DEMO-2007 DESC:

TLO: 1371-DEMO-2007

TLO TEXT: Given Class V, breaching tools, non-explosive materials, a target to attack, and personal protective equipment (PPE), employ a doughnut charge to execute a successful breach in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2007a

ELO TEXT: Given a specified breaching charge and references, state the procedures to prime the charge using a det cord loop per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2007b

ELO TEXT: Given a tactical scenario involving an urban breaching charge, a list of firing systems, and references, select the proper firing system per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2007c

ELO TEXT: Given a tactical scenario involving an urban breach and references, explain the effects a specified breaching charge will have on a specific target per the references.

ELO: 1371-DEMO-2007d

ELO TEXT: Given a target for an urban breach, a list of materials and references, select necessary items required to construct the breaching charge per the references.

ELO: 1371-DEMO-2007e

ELO TEXT: Given a tactical scenario involving an urban breach and references, state in writing the procedures for employing the breaching charge per the references.

ELO: 1371-DEMO-2007f

ELO TEXT: Given a tactical scenario involving an urban breach, a specified breaching charge and references, select the optimal positioning for the breach team during detonation per the references.

ELO: 1371-DEMO-2007g

ELO TEXT: With the aid of references, as a member of a team, given all necessary tools and explosives, designated targets and personal protective equipment, employ a doughnut charge to conduct urban mobility breaching operations which result in 100% penetration of the target while limiting the amount of collateral damage and which allows entry per the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2007h

ELO TEXT: Given an urban breaching mission, a breaching element, and the requirement, deliver a deliberate breacher's brief prior to leaving the line of departure, so that the breach element, the command element, and any other key personnel understand all



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facets of the breach.

ELO: 1371-DEMO-2007i

ELO TEXT: Given an urban breaching mission, a breaching element, and the requirement, deliver a hasty breacher's brief in the last covered and concealed position, or while enroute to the target, so that the breach element understands all facets of the breach.

TASK: 1371-DEMO-2008 DESC:

TLO: 1371-DEMO-2008

TLO TEXT: Given Class V, breaching tools, non-explosive materials, a target to attack, and personal protective equipment (PPE), employ a window charge to execute a successful breach in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2008a

ELO TEXT: With the aid of references, as a member of a team, given all necessary tools and explosives, designated targets and personal protective equipment, employ a window charge to conduct urban mobility breaching operations which result in 100% penetration of the target while limiting the amount of collateral damage and which allows entry per the MCRP 3-17.7L Explosives and Demolitions.

TASK: 1371-DEMO-2009 DESC:

TLO: 1371-DEMO-2009

TLO TEXT: Given Class V, breaching tools, non-explosive materials, a target to attack, and personal protective equipment (PPE), employ a water charge to execute a successful breach in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2009a

ELO TEXT: With the aid of references, as a member of a team, given all necessary tools and explosives, designated targets and personal protective equipment, employ a water charge to conduct urban mobility breaching operations which result in 100% penetration of the target while limiting the amount of collateral damage and which allows entry per the MCRP 3-17.7L Explosives and Demolitions.

TASK: 1371-DEMO-2010 DESC:

TLO: 1371-DEMO-2010

TLO TEXT: Given Class V, breaching tools, non-explosive materials, a target to attack, and personal protective equipment (PPE), employ an oval charge to execute a successful breach in accordance with MCRP 3-17-7L Explosives and Demolitions.

ELO: 1371-DEMO-2010a

ELO TEXT: With the aid of references, as a member of a team, given all necessary tools and explosives, designated targets and personal protective equipment, employ an oval charge to conduct urban mobility breaching operations which result in 100% penetration of the target while limiting the amount of collateral damage and which allows entry per the MCRP 3-17.7L Explosives and Demolitions.

TASK: 1371-DEMO-2011 DESC:

TLO: 1371-DEMO-2011

TLO TEXT: Given Class V, breaching tools, non-explosive materials, a target to attack, and personal



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protective equipment (PPE), employ a Uli knot slider charge to execute a successful breach in accordance with MCRP 3-17-7L Explosives and Demolitions.

ELO: 1371-DEMO-2011a

ELO TEXT: With the aid of references, as a member of a team, given all necessary tools and explosives, designated targets and personal protective equipment, employ a Uli knot slider charge to conduct urban mobility breaching operations which result in 100% penetration of the target while limiting the amount of collateral damage and which allows entry per the MCRP 3-17.7L Explosives and Demolitions.

TASK: 1371-DEMO-2012 DESC:

TLO: 1371-DEMO-2012

TLO TEXT: Given Class V, breaching tools, non-explosive materials, a target to attack, and personal protective equipment (PPE), employ a detonating cord linear charge to execute a successful breach in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2012a

ELO TEXT: With the aid of references, as a member of a team, given all necessary tools and explosives, designated targets and personal protective equipment, employ a detonating cord linear charge to conduct urban mobility breaching operations which result in 100% penetration of the target while limiting the amount of collateral damage and which allows entry per the MCRP 3-17.7L Explosives and Demolitions.

TASK: 1371-DEMO-2013 DESC:

TLO: 1371-DEMO-2013

TLO TEXT: Given Class V, breaching tools, non-explosive materials, a target to attack, and personal protective equipment (PPE), employ a concrete charge to execute a successful breach in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2013a

ELO TEXT: With the aid of references, as a member of a team, given all necessary tools and explosives, designated targets and personal protective equipment, employ a concrete charge to conduct urban mobility breaching operations which result in 100% penetration of the target while limiting the amount of collateral damage and which allows entry per the MCRP 3-17.7L Explosives and Demolitions.

TASK: 1371-DEMO-2014 DESC:

TLO: 1371-DEMO-2014

TLO TEXT: Given Class V, breaching tools, non-explosive materials, a target to attack, and protective field equipment, employ a fence charge to execute a successful breach in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-DEMO-2014a

ELO TEXT: With the aid of references, as a member of a team, given all necessary tools and explosives, designated targets and personal protective equipment, employ a fence charge to conduct urban mobility breaching operations which result in creating an opening of the target for mobility while limiting the amount of collateral damage per the MCRP 3-17.7L Explosives and Demolitions.



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DUTY: 1371-EOPS DESC: Engineer Operations

TASK: 1371-EOPS-2004 DESC:

TLO: 1371-EOPS-2004

TLO TEXT: Given a damaged airfield, SL-3 complete airfield damage repair (ADR) kit, heavy equipment support, a borrow pit, personnel, and communications equipment, repair damaged airfields (ADR) to meet surface roughness criteria in order to establish a functional Minimum Operating Strip (MOS) capable of launching and recovering aircraft in accordance with MCWP 3.21.1 Aviation Ground Support.

ELO: 1371-EOPS-2004a

ELO TEXT: Given a notional damaged airfield, list of personnel and equipment, and references, state the organization of a Damage Assessment Team (DAT) needed to perform damage assessment for repairing the airfield per MCWP 3.21.1 Aviation Ground Support.

ELO: 1371-EOPS-2004b

ELO TEXT: Given a notional damaged airfield, resources and references, conduct a mission analysis on the damaged airfield to identify repair activities needed to return airfield to operational state in accordance with MCWP 3.21.1 Aviation Ground Support.

ELO: 1371-EOPS-2004c

ELO TEXT: Given a notional damaged airfield, NATO reference marking system sheet, list of personnel and equipment, and references, perform damage assessment needed for repairing the airfield to operational state per MCWP 3.21.1 Aviation Ground Support.

ELO: 1371-EOPS-2004d

ELO TEXT: Given a notional damaged airfield, unexploded ordnance (UXO) locations, NATO reference marking system sheet, list of personnel and equipment, and references, mark locations of UXO on the NATO reference marking system to annotate locations of ordnance in accordance with MCWP 3.21.1 Aviation Ground Support and MCRP 3-17.7D Explosive Hazards Operations.

ELO: 1371-EOPS-2004e

ELO TEXT: Given a notional damaged airfield, NATO reference marking system sheet, proposed minimum operating strip (MOS) and references, record spall/crater damage to proposed MOS on standard NATO reference marking system to annotate locations of damage in accordance with MCWP 3.21.1 Aviation Ground Support.

ELO: 1371-EOPS-2004f

ELO TEXT: Given a notional damaged airfield, list of personnel and equipment, NATO reference marking system sheet, and references, record damage to airfield facilities on standard NATO reference marking system to annotate damage to existing facilities (aprons, buildings, etc.) in accordance with MCWP 3.21.1 Aviation Ground Support.

ELO: 1371-EOPS-2004g

ELO TEXT: Given a notional damaged airfield, completed NATO reference marking system sheet, list of personnel and equipment, and references, provide estimates for resources required to conduct repairs on damaged airfield to return airfield to operational state in accordance with MCWP 3.21.1 Aviation Ground Support and other applicable reference materials.



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ELO: 1371-EOPS-2004h

ELO TEXT: Given an SL-3 complete Airfield Damage Repair (ADR) kit and without references, identify the components in an ADR Kit per the TM 11275A-OI/1 Airfield Damage Repair (ADR) Kit.

ELO: 1371-EOPS-2004i

ELO TEXT: Given an SL-3 complete Airfield Damage Repair (ADR) kit and references, utilize necessary components in an ADR Kit without mishap to personnel or equipment to effect a repair and in accordance with TM 11275A-OI/1 Airfield Damage Repair (ADR) Kit.

ELO: 1371-EOPS-2004j

ELO TEXT: Given an SL-3 complete airfield damage repair (ADR) kit, heavy equipment support, aggregate material, personnel, communications equipment, and references, repair spalls/craters on a damaged airfield in a manner to meet surface roughness criteria needed to receive identified aircraft type per the MCWP 3.21.1 Aviation Ground Support.

ELO: 1371-EOPS-2004k

ELO TEXT: Given an SL-3 complete airfield damage repair (ADR) kit, FRP panels, heavy equipment support, personnel, communications equipment and references, install FOD covers on repaired craters and/or spalls on a damaged airfield in a manner to meet specifications needed to receive identified aircraft type per the MCWP 3.21.1 Aviation Ground Support.

TASK: 1371-EOPS-2008 DESC:

TLO: 1371-EOPS-2008

TLO TEXT: In an operating environment, given a mission, personnel, equipment, and references, conduct chainsaw operations to safely fell, limb and buck standing timber without injury to personnel and equipment in accordance with OSHA standards.

ELO: 1371-EOPS-2008a

ELO TEXT: Given a tactical scenario, a map, engineer reconnaissance report forms, and a construction directive, state resources (personnel and equipment) required for felling standing timber to produce Class IV material for obstacle or survivability construction per USDA Forest Service Safe Timber Harvesting and DoDI 6055.1 DoD Safety and Occupational Health (SOH) Program.

ELO: 1371-EOPS-2008b

ELO TEXT: Given a tactical scenario, a map, engineer reconnaissance report forms, and a construction directive, describe in writing how to conduct a site survey on existing trees that are required for producing Class IV material for obstacle or survivability construction per USDA Forest Service Safe Timber Harvesting.

ELO: 1371-EOPS-2008c

ELO TEXT: Given a tactical scenario, a map, engineer reconnaissance report forms, and a construction directive, describe safety procedures needed when felling existing trees that are required for clearing areas or producing Class IV material for obstacle or survivability construction per USDA Forest Service Safe Timber Harvesting and DoDI 6055.1 DoD Safety and Occupational Health (SOH) Program.

TASK: 1371-EOPS-2009 DESC:

TLO: 1371-EOPS-2009



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TLO TEXT: Given a rigging task to be performed, appropriate timbers, lumber, fasteners, tools and equipment, suitable rope for the task, and references, conduct rigging to meet the mission rigging requirements without incident in accordance with MCRP 3-17.7J Rigging Techniques (FM 5-125).

ELO: 1371-EOPS-2009a

ELO TEXT: Given a rigging task to be performed, appropriate timbers, lumber, fasteners, tools and equipment, suitable rope for the task, and references, identify rigging requirements to meet the mission requirements safely per MCRP 3-17.7J Rigging Techniques.

ELO: 1371-EOPS-2009b

ELO TEXT: Given a rigging task to be performed, appropriate timbers, lumber, fasteners, tools and equipment, suitable rope for the task, and references, employ quality control and safety procedures during rigging operations to ensure the mission requirements are met without damage to equipment or injury to personnel per MCRP 3-17.7J Rigging Techniques and MCRP 3-17A Engineer Field Data.

ELO: 1371-EOPS-2009c

ELO TEXT: Given a rigging task to be performed, appropriate timbers, lumber, fasteners, tools and equipment, suitable rope for the task, and references, construct lifting/anchor systems to ensure the mission requirements are met per MCRP 3-17.7J Rigging Techniques and MCRP 3-17A Engineer Field Data.



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DUTY: 1371-HORZ DESC: Horizontal Construction

TASK: 1371-HORZ-2001 DESC:

TLO: 1371-HORZ-2001

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

ELO: 1371-HORZ-2001a

ELO TEXT: Given an SL-3 complete soil test kit and references, identify the tools and equipment used to obtain a two-letter USCS classification, CBR, and moisture content per the MCRP 3-17.7G Military Soils Engineering.

ELO: 1371-HORZ-2001b

ELO TEXT: Given an unidentified soil sample, an SL-3 complete soil test kit and references, identify the properties of soil to include; soil characteristics, soil formation and commonly used terms and acronyms when obtaining a two-letter USCS classification, CBR, and moisture content per the MCRP 3-17.7G Military Soils Engineering.

ELO: 1371-HORZ-2001c

ELO TEXT: Given an unidentified soil sample, an SL-3 complete soil test kit and references, conduct a field identification of soil to obtain a two-letter USCS classification per the MCRP 3-17.7G Military Soils Engineering.

ELO: 1371-HORZ-2001d

ELO TEXT: Given a specified location, specifications, an SL-3 complete soil test kit and references, perform California Bearing Ratio (CBR) test to determine if the bearing capacity is sufficient for the assigned specifications per the MCRP 3-17.7G Military Soils Engineering.

ELO: 1371-HORZ-2001e

ELO TEXT: Given a specified location, specifications, an SL-3 complete soil test kit and references, perform moisture content test(s) to determine if the moisture content meets the assigned specifications per the MCRP 3-17.7G Military Soils Engineering.

TASK: 1371-HORZ-2002 DESC:

TLO: 1371-HORZ-2002

TLO TEXT: Provided a drainage structure requirement, a map, and references, design expedient drainage structures to intercept, collect, and remove surface water flowing toward a designated area from adjacent areas in accordance with MCRP 3-17.7A Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations.

ELO: 1371-HORZ-2002a

ELO TEXT: Given an existing all-weather stream, the requirement for a drainage structure, and references, calculate the area of waterway to provide adequate drainage per the MCRP 3-17.7A Planning and Design of Roads, Airbases, and Heliports in Theater of Operations.

ELO: 1371-HORZ-2002b

ELO TEXT: Given a map, an area requiring a drainage structure, and references, calculate peak volume of storm water run off to provide adequate drainage per the MCRP 3-17.7A Planning and Design of Roads, Airbases, and Heliports in Theater of Operations.



LEARNING OBJECTIVE/OUTCOME REPORT

ELO: 1371-HORZ-2002c

ELO TEXT: Given an area waterway and references, determine the amount of culvert required to provide adequate drainage per the MCRP 3-17.7A Planning and Design of Roads, Airbases, and Heliports in Theater of Operations.

ELO: 1371-HORZ-2002d

ELO TEXT: Given a volume of water to be drained and references, design a drainage system to provide adequate drainage per the MCRP 3-17.7A Planning and Design of Roads, Airbases, and Heliports in Theater of Operations.

TASK: 1371-HORZ-2004 DESC:

TLO: 1371-HORZ-2004

TLO TEXT: Provided specifications, writing materials, a calculator, and references, design a concrete slab on grade to accommodate all dead and live loads considered and that design includes all reinforcement, joints and/or anchor bolts in accordance with the specifications and MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004a

ELO TEXT: Given a construction directive, specifications, a list of cement types and the reference, identify the requirements for the project (materials, placement, strength, durability, etc) to meet the specifications of the construction directive per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004b

ELO TEXT: Given a schematic and without references, identify the components of a concrete form per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004c

ELO TEXT: Given a construction directive and references, determine the rate of placement per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004d

ELO TEXT: Given a construction directive and references, determine the hydrostatic fluid pressure per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004e

ELO TEXT: Given a construction directive and references, adjust rate of placement (as required) per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004f

ELO TEXT: Given a construction directive and the reference, select the appropriate slump to meet the specifications of the construction directive per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004g

ELO TEXT: Given a construction directive specifying desired slump, state the procedures to conduct a slump test to meet the specifications of the construction directive per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004h

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

ELO: 1371-HORZ-2004i

ELO TEXT: Given a construction directive and the reference, determine the minimum



LEARNING OBJECTIVE/OUTCOME REPORT

compressive strength required for a slab project to meet the specifications of the construction directive per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004j

ELO TEXT: Given a construction directive and the reference, determine the flexural tensile stress for a slab project to meet the specifications of the construction directive per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004k

ELO TEXT: Given a construction directive and the reference, determine the equivalent static load and correct as necessary to meet the specifications of the construction directive per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004l

ELO TEXT: Given a construction directive and the reference, determine the slab thickness to meet the specifications of the construction directive per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004m

ELO TEXT: Given a construction directive and the reference, determine the amount of cement required to meet the specifications of the construction directive per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004n

ELO TEXT: Given a construction directive, construction drawings and/or blueprints, describe the procedures to erect concrete forms to meet the construction directive specifications per the MCRP 3-17.7D Concrete & Masonry.

ELO: 1371-HORZ-2004o

ELO TEXT: Given a construction directive, construction drawings and/or blueprints, describe the procedures to emplace reinforcement, joints, and anchors to meet the construction directive specifications per the MCRP 3-17.7D Concrete & Masonry.



COMBAT ENGINEER NCO (WORKING)
LEARNING OBJECTIVE/OUTCOME REPORT

DUTY: 1371-MANT DESC: Maintenance

TASK: 1371-MANT-2001 DESC:

TLO: 1371-MANT-2001

TLO TEXT: With access to Global Combat Support System-Marine Corps (GCSSMC), combat engineer equipment, chests, sets and kits, equipment records, maintenance forms and references, maintain the unit's engineer equipment, chests, sets and kits maintenance programs to ensure maintenance management functions, maintenance resources, production, and information conform to unit MMSOP requirements per the references.

ELO: 1371-MANT-2001a

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

ELO: 1371-MANT-2001b

ELO TEXT: Given the requirement and references, state the requirements to maintain publications for unit equipment, sets, chests and kits in accordance with MCO P4790.1_.

ELO: 1371-MANT-2001c

ELO TEXT: Given the requirement, a notional Table of Equipment (T/E), and references, state procedures to inventory items, equipment sets, chests and kits that are annotated on the Consolidate Memorandum Receipt (CMR) in accordance with applicable references.

ELO: 1371-MANT-2001d

ELO TEXT: Given the requirement, a notional Table of Equipment (T/E), a Consolidate Memorandum Receipt (CMR), and references, state procedures to report discrepancies (unserviceable, missing, excessive items, etc.) in accordance with applicable references.

ELO: 1371-MANT-2001e

ELO TEXT: Given the requirement, state the purpose of Global Combat Support System-Marine Corps (GCSS-MC) that highlights the benefits and capabilities in accordance with applicable references.

ELO: 1371-MANT-2001f

ELO TEXT: Given the requirement, a notional Table of Equipment (T/E), applicable forms or reports, and references, state requirements to maintain equipment folders/forms/GCSS-MC to ensure proper dispatching procedures are being enforced, that preventive and corrective maintenance are being performed as required, and that equipment usage/logs are properly maintained and inputted into GCSS-MC data base(s) in accordance with applicable references.

ELO: 1371-MANT-2001g

ELO TEXT: Given the requirement, state the different service requests in GCSS-MC by describing their functions (i.e. service, supply, maintenance, cals, mods, PEB, special tools, etc.) in accordance with applicable references.

ELO: 1371-MANT-2001h

ELO TEXT: Given the requirement, state the types of GCSS-MC generated reports necessary for users to maintain, consolidate, and monitor service, maintenance and supply activities in accordance with applicable references.



COMBAT ENGINEER NCO (WORKING)
LEARNING OBJECTIVE/OUTCOME REPORT

DUTY: 1371-MOBL DESC: Mobility

TASK: 1371-MOBL-2001 DESC:

TLO: 1371-MOBL-2001

TLO TEXT: Provided a mission specifying number and/or type(s) of aircraft, DA Form 1711-R, engineer tools and equipment, EAF support, materials, and personnel, design Tactical Landing Zones (TLZ)/Expeditionary Airfields (EAF) to provide aircraft landing sites that meet structural and geometric design criteria for the type(s)/number(s) of aircraft anticipated for a TLZ, a surfaced EAF or an unsurfaced EAF per the mission specifications in accordance with MCRP 3-17.7B Planning and Design of Roads, Airfields, and Heliports in the Theater of Operations.

ELO: 1371-MOBL-2001a

ELO TEXT: Given a tactical scenario, a map, a specified area, list of personnel and equipment, and references, analyze the mission to determine landing surface (i.e. AM-2 Matting) requirements to support an expeditionary airfield based on the tactical situation per the MCRP 3-17.7B Planning and Design of Roads, Airfields, and Heliports in the Theater of Operations and AM-2 Airfield Mat and Accessories.

ELO: 1371-MOBL-2001b

ELO TEXT: Given a tactical scenario, a map, engineer reconnaissance report forms, a construction directive, and references, as a member of a team, conduct a site reconnaissance on selected terrain to determine if the area meets the criteria needed for a TLZ/EAF (FOB) per the MCRP 3-17.7B Planning and Design of Roads, Airfields, and Heliports in the Theater of Operations.

ELO: 1371-MOBL-2001c

ELO TEXT: Given a tactical scenario, a map, engineer reconnaissance report forms, a construction directive, and references, as a member of a team, design a TLZ/EAF (FOB) based on mission directives and site reconnaissance information per the MCRP 3-17.7B Planning and Design of Roads, Airfields, and Heliports in the Theater of Operations.

ELO: 1371-MOBL-2001d

ELO TEXT: Given a tactical scenario involving a TLZ/EAF (FOB), a map, list of personnel and equipment, and references, analyze requirements needed to establish a ADR plan in accordance with MCWP 3.21.1 Aviation Ground Support.

TASK: 1371-MOBL-2002 DESC:

TLO: 1371-MOBL-2002

TLO TEXT: As a designated bridge master, provided a completed MGB Pro Forma, a gap, Medium Girder Bridge set, tools, a launch vehicle, personnel and references, manage employment of the Medium Girder Bridge (MGB) to meet design specifications and intended bridge classification per the Pro Forma, while observing safety precautions and technical specifications during build, boom and launch in accordance with TM 5-5420-212-12 Medium Girder Bridge.

ELO: 1371-MOBL-2002a

ELO TEXT: Given a scenario involving the installation/retrieval of a Medium Girder Bridge (MGB) and references, select required safety measures associated with launching/retrieving the bridge per the TM 5-5420-212-12 Medium Girder Bridge.

ELO: 1371-MOBL-2002b

ELO TEXT: Given a scenario involving the installation of a Medium Girder Bridge (MGB), and



LEARNING OBJECTIVE/OUTCOME REPORT

references, identify in writing the characteristics of the bridge per the TM 5-5420-212-12 Medium Girder Bridge.

ELO: 1371-MOBL-2002c

ELO TEXT: Given a Medium Girder Bridge (MGB) configuration and references, identify in writing the construction sequence to install the bridge per the TM 5-5420-212-12 Medium Girder Bridge.

ELO: 1371-MOBL-2002d

ELO TEXT: As a member of a team, given a Medium Girder Bridge (MGB) configuration, a completed pro forma worksheet, bridge components, a dry gap training area, personnel, tools, equipment and references, install the bridge to meet Military Load Classification (MLC) specifications per the TM 5-5420-212-12 Medium Girder Bridge.

ELO: 1371-MOBL-2002e

ELO TEXT: As a member of a team, given an assembled Medium Girder Bridge (MGB), bridge pallets, a dry gap training area, personnel, tools, equipment and references, retrieve the bridge and palletize the components per the TM 5-5420-212-12 Medium Girder Bridge.

TASK: 1371-MOBL-2003 DESC:

TLO: 1371-MOBL-2003

TLO TEXT: Provided a body of water, a bridge erection boat, tools, personnel, personal protective equipment (PPE), and the reference, operate Bridge Erection Boat (BEB) using controls to maneuver 360 degrees around a stationary buoy while maintaining a 1 yard radius; perform a series of pier touches; and a pier side docking maneuver, all without damage to equipment while observing all safety and navigational precautions in accordance with TM 10020C-OI Operator's Manual Boat, Bridge Erection (MKIII).

ELO: 1371-MOBL-2003a

ELO TEXT: Given a Bridge Erection Boat (BEB) and without reference, identify major components of the boat in accordance with TM 10020C-OI Operator's Manual Boat, Bridge Erection (MKIII).

ELO: 1371-MOBL-2003b

ELO TEXT: Given a Bridge Erection Boat (BEB) and without reference, perform operator maintenance on the boat in accordance with TM 10020C-OI Operator's Manual Boat, Bridge Erection (MKIII).

ELO: 1371-MOBL-2003c

ELO TEXT: Given a Bridge Erection Boat (BEB), launching/retrieving vehicle references and as a member of a team, launch/retrieve the boat in accordance with TM 10020C-OI Operator's Manual Boat, Bridge Erection (MKIII).

ELO: 1371-MOBL-2003d

ELO TEXT: Without the aid of references, state the characteristics of the Bridge Erection Boat (BEB) in accordance with TM 10020C-OI Operator's Manual Boat, Bridge Erection (MKIII).

ELO: 1371-MOBL-2003e

ELO TEXT: Without the aid of references, state the safety considerations for navigating the Bridge Erection Boat (BEB) in accordance with TM 10020C-OI Operator's Manual Boat, Bridge Erection (MKIII).

ELO: 1371-MOBL-2003f



LEARNING OBJECTIVE/OUTCOME REPORT

ELO TEXT: Without the aid of references, describe the different methods to launch the Bridge Erection Boat (BEB) in accordance with TM 10020C-OI Operator's Manual Boat, Bridge Erection (MKIII).

ELO: 1371-MOBL-2003g

ELO TEXT: Given a Bridge Erection Boat (BEB), safety equipment, and reference, operate the boat while observing all safety precautions in accordance with TM 10020C-OI Operator's Manual Boat, Bridge Erection (MKIII).

TASK: 1371-MOBL-2004 DESC:

TLO: 1371-MOBL-2004

TLO TEXT: As a float bridge master, given a complete IRB design, a wet gap crossing site, IRB components, bridge erection boats, fuel, IRB tools and equipment, motor transport support, personnel, personal protective equipment (PPE), and references, manage the employment of the Improved Ribbon Bridge (IRB) to provide force mobility, employing the IRB within the time frame listed in the design criteria, while observing safety precautions in accordance with TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

ELO: 1371-MOBL-2004a

ELO TEXT: Provided a complete IRB design, a wet gap crossing site, IRB components, bridge erection boats, fuel, IRB tools and equipment, motor transport support, personnel, personal protective equipment (PPE) and references, determine the requirements to employ the IRB in accordance with mission, site conditions, and TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

ELO: 1371-MOBL-2004b

ELO TEXT: Provided a complete IRB design, a wet gap crossing site, IRB components, bridge erection boats, fuel, IRB tools and equipment, motor transport support, personnel, personal protective equipment (PPE) and references, describe the construction sequence to employ the IRB in accordance TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

ELO: 1371-MOBL-2004c

ELO TEXT: Provided a complete IRB design, a wet gap crossing site, IRB components, bridge erection boats, fuel, IRB tools and equipment, motor transport support, personnel, personal protective equipment (PPE) and references, select the safety measures to employ the IRB in accordance TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

ELO: 1371-MOBL-2004d

ELO TEXT: Provided a complete IRB design, a wet gap crossing site, IRB components, bridge erection boats, fuel, IRB tools and equipment, motor transport support, personnel, personal protective equipment (PPE) references, and as a member of a team, install the IRB in accordance TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

ELO: 1371-MOBL-2004e

ELO TEXT: Provided an installed IRB, a wet gap crossing site, bridge erection boats, fuel, IRB tools and equipment, motor transport support, personnel, personal protective equipment (PPE) references, and as a member of a team, retrieve the IRB in accordance TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

TASK: 1371-MOBL-2005 DESC:



COMBAT ENGINEER NCO (WORKING)
LEARNING OBJECTIVE/OUTCOME REPORT

TLO: 1371-MOBL-2005

TLO TEXT: As a designated raft commander, provided mission specifications, a wet gap crossing site, IRB components, bridge erection boats, fuel, IRB tools, motor transport support, personnel, personal protective equipment (PPE), and references, manage military rafting operations to provide force mobility while maintaining proper speed and adhering to navigational and operational safety requirements in accordance with TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

ELO: 1371-MOBL-2005a

ELO TEXT: Given a wet gap training area, Improved Ribbon Bridge (IRB) interior and ramp bays, Bridge Erection Boats (BEB), motor transport support, tools and equipment, as a member of a team, and without references, assemble a ribbon raft in accordance with TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

ELO: 1371-MOBL-2005b

ELO TEXT: Given a wet gap crossing site, a completed Improved Ribbon Bridge (IRB) raft, Bridge Erection Boats (BEB), motor transport support, tools and equipment, as a member of a team, and without references, maneuver the ribbon raft in accordance with TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

ELO: 1371-MOBL-2005c

ELO TEXT: Given a wet gap crossing site, a completed Improved Ribbon Bridge (IRB) raft, Bridge Erection Boats (BEB), motor transport support, tools and equipment, as a member of a team, and without references, load/unload a vehicle on/off the ribbon raft in accordance with TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

ELO: 1371-MOBL-2005d

ELO TEXT: Given a tactical rafting scenario and references, determine the time required to cross the gap in accordance with TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

ELO: 1371-MOBL-2005e

ELO TEXT: Given a tactical rafting scenario and references, identify in writing the characteristics of the ribbon raft in accordance with TM 11518A-OR Improve Ribbon Bridge (IRB) Operator's Manual.

TASK: 1371-MOBL-2010 DESC:

TLO: 1371-MOBL-2010

TLO TEXT: Given an M58/M68 Linear Demolition Charge, MK 22 Rocket, MK 155 Trailer Mounted Launcher, towing vehicle, personal protective equipment, and an area to fire the charge, employ M58/M68 linear demolition charge to breach a lane through a minefield or other linear obstacles as directed to enable force mobility in accordance with TM 08982A-14&P/2B Operators Manual for MK 155 Mine Clearance System.

ELO: 1371-MOBL-2010a

ELO TEXT: Given an inert linear demolition charge, an MK22 rocket, MK 155 trailer mounted launcher, towing vehicle, training area, and reference, inspect the linear demolition charge in accordance with TM 08982A-14&P/2B Operators Manual for MK 155 Mine Clearance System.

ELO: 1371-MOBL-2010b

ELO TEXT: Given an inert linear demolition charge, an MK22 rocket, MK 155 trailer mounted



LEARNING OBJECTIVE/OUTCOME REPORT

launcher, towing vehicle, training area, and as a member of a team, set up the linear demolition charge in accordance with TM 08982A-14&P/2B Operators Manual for MK 155 Mine Clearance System.

ELO: 1371-MOBL-2010c

ELO TEXT: Given an inert linear demolition charge, an MK22 rocket, MK 155 trailer mounted launcher, towing vehicle, training area, and reference, perform pre-operational checks on the linear demolition charge in accordance with TM 08982A-14&P/2B Operators Manual for MK 155 Mine Clearance System.

ELO: 1371-MOBL-2010d

ELO TEXT: Given an inert linear demolition charge, an MK22 rocket, MK 155 trailer mounted launcher, towing vehicle, and training area, position the linear demolition charge ensuring proper standoff distance for firing in accordance with TM 08982A-14&P/2B Operators Manual for MK 155 Mine Clearance System.

ELO: 1371-MOBL-2010e

ELO TEXT: Given an inert linear demolition charge, an MK22 rocket, MK 155 trailer mounted launcher, towing vehicle, and training area, launch the rocket for the linear demolition charge in accordance with TM 08982A-14&P/2B Operators Manual for MK 155 Mine Clearance System.

ELO: 1371-MOBL-2010f

ELO TEXT: Given an inert linear demolition charge mounted on MK155 trailer and with rocket and charge deployed, detonate the charge (notional) in accordance with TM 08982A-14&P/2B Operators Manual for MK 155 Mine Clearance System.

ELO: 1371-MOBL-2010g

ELO TEXT: Given an inert linear demolition charge, an MK22 rocket, MK 155 trailer mounted launcher, towing vehicle, and training area, perform immediate actions for the linear demolition misfire(s) in accordance with TM 08982A-14&P/2B Operators Manual for MK 155 Mine Clearance System.

TASK: 1371-MOBL-2011 DESC:

TLO: 1371-MOBL-2011

TLO TEXT: Given an anti-personnel minefield or wire obstacle, Antipersonnel Obstacle Breaching System (APOBS), demolition tools, equipment, and personal protective equipment, employ the APOBS to clear a lane through the obstacle while observing all safety precautions in accordance with TM 013750-13&P Operators Manual MK-7 MOD 1 Anti-Personnel Obstacle Breaching System (ABOBS).

ELO: 1371-MOBL-2011a

ELO TEXT: Without the aid of reference, describe the capabilities of APOBS per TM 013750-13&P Operators Manual MK-7 MOD 1 Anti-Personnel Obstacle Breaching System (ABOBS).

ELO: 1371-MOBL-2011b

ELO TEXT: Without the aid of reference, describe the components of APOBS per TM 013750-13&P Operators Manual MK-7 MOD 1 Anti-Personnel Obstacle Breaching System (ABOBS).

ELO: 1371-MOBL-2011c

ELO TEXT: Given an APOBS and without references, unpack the APOBS ensuring all components are present in accordance with TM 013750-13&P Operators Manual MK-7 MOD 1 Anti-Personnel Obstacle Breaching System (ABOBS).



LEARNING OBJECTIVE/OUTCOME REPORT

ELO: 1371-MOBL-2011d

ELO TEXT: Given an APOBS and without references, perform preventive maintenance checks and services on a APOBS in accordance with TM 013750-13&P Operators Manual MK-7 MOD 1 Anti-Personnel Obstacle Breaching System (ABOBS).

ELO: 1371-MOBL-2011e

ELO TEXT: Given an APOBS and as a member of a team , demonstrate pre-deployment procedures in accordance with TM 013750-13&P Operators Manual MK-7 MOD 1 Anti-Personnel Obstacle Breaching System (ABOBS).

ELO: 1371-MOBL-2011f

ELO TEXT: Given an APOBS and as a member of a team, demonstrate firing requirements in accordance with TM 013750-13&P Operators Manual MK-7 MOD 1 Anti-Personnel Obstacle Breaching System (ABOBS).

ELO: 1371-MOBL-2011g

ELO TEXT: Given an APOBS and without reference, explain immediate action procedures for misfire(s) in accordance with TM 013750-13&P Operators Manual MK-7 MOD 1 Anti-Personnel Obstacle Breaching System (ABOBS).

TASK: 1371-MOBL-2012 DESC:

TLO: 1371-MOBL-2012

TLO TEXT: Given a mission specifying available supporting arms, personnel with full combat load per T/O weapon, demolitions tools, engineer equipment, and Class V, conduct obstacle breaching operations to reduce linear obstacles or breach a lane through a minefield/explosive hazard in accordance with MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1371-MOBL-2012a

ELO TEXT: Given a tactical scenario, a description of an obstacle or a complex obstacle, a list available resources (personnel, equipment, materials) and references, as a member of a team, develop an obstacle breaching plan in accordance with MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1371-MOBL-2012b

ELO TEXT: Given a list of obstacles and a list of breaching equipment, select the equipment to effectively breach each obstacle in accordance with MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1371-MOBL-2012c

ELO TEXT: Given a tactical scenario, a description of an obstacle or a complex obstacle, a sandtable, a list available resources (personnel, equipment, materials) and references, as a member of a team, described tactical formation(s) needed enroute to the obstacle to effectively breach or bypass an obstacle in accordance with MCWP 3-17.8 Combined Arms Mobility Operations.

ELO: 1371-MOBL-2012d

ELO TEXT: Given a tactical scenario, a notional complex obstacle, a sandtable, a list available resources (personnel, equipment, materials) and references, as a member of a team, described the conduct of final preparations to effectively breach an obstacle in accordance with MCWP 3-17.8 Combined Arms Mobility Operations.

ELO: 1371-MOBL-2012e

ELO TEXT: Given a tactical scenario, a notional complex obstacle, a sandtable, a list available resources (personnel, equipment, materials) and references, as a member of a team,



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describe the conduct of movement to the obstacle from final preparation area to effectively breach an obstacle in accordance with MCWP 3-17.8 Combined Arms Mobility Operations.

ELO: 1371-MOBL-2012f

ELO TEXT: Given a tactical scenario, a notional complex obstacle, a sandtable, a list available resources (personnel, equipment, materials) and references, as a member of a team, describe employment of breaching assets to effectively breach an obstacle in accordance with MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1371-MOBL-2012g

ELO TEXT: Given a tactical scenario, a notional complex obstacle, a sandtable, a list available resources (personnel, equipment, materials) and references, as a member of a team, describe securing the breached lane to identify left/right and near/far boundaries of the breached obstacle in accordance with MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1371-MOBL-2012h

ELO TEXT: Given a tactical scenario, a breached notional complex obstacle, a sandtable, a list available resources (personnel, equipment, materials) and references, as a member of a team, describe the proofing of the breached lane to clear unexploded ordnance or obstacles that would impede mobility of the maneuver element in accordance with MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1371-MOBL-2012i

ELO TEXT: Given a tactical scenario, a breached notional complex obstacle, a sandtable, a list available resources (personnel, equipment, materials) and references, as a member of a team, describe marking of the proofed lane to show start, lateral limits and ending of an obstacle for mobility of the maneuver element in accordance with MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1371-MOBL-2012j

ELO TEXT: Given a tactical scenario, a breached notional complex obstacle, a sandtable, a list available resources (personnel, equipment, materials) and references, as a member of a team, describe the controlled movement of maneuver elements through the breached obstacle in accordance with MCWP 3-17.3 MAGTF Breaching Operations.

ELO: 1371-MOBL-2012k

ELO TEXT: Given a tactical scenario, a breached notional complex obstacle, a sandtable, a list available resources (personnel, equipment, materials) and references, as a member of a team, describe the conduct of consolidation/resupply after breaching an obstacle in accordance with MCWP 3-17.3 MAGTF Breaching Operations.

TASK: 1371-MOBL-2013 DESC:

TLO: 1371-MOBL-2013

TLO TEXT: Given a shotgun, personal protective equipment, targets, and ammunition, while employing combat marksmanship techniques, engage stationary targets with the shotgun to assess ammunition effects on paper targets from 15 yards.

ELO: 1371-MOBL-2013a

ELO TEXT: Given the requirement, state the characteristics of the shotgun per the TM 1003A/07172A/09081A-13P Operator and Maintenance Manual, Model 500, Mossburg 12 Gauge Shotgun.

ELO: 1371-MOBL-2013b



LEARNING OBJECTIVE/OUTCOME REPORT

ELO TEXT: Given the requirement, identify the major components of the shotgun per the TM 1003A/07172A/09081A-13P Operator and Maintenance Manual, Model 500, Mossburg 12 Gauge Shotgun.

ELO: 1371-MOBL-2013c

ELO TEXT: Given the requirement, state the four weapon safety rules in accordance with MCRP 3-01A Rifle Marksmanship.

ELO: 1371-MOBL-2013d

ELO TEXT: Given a shotgun, small arms maintenance equipment, approved cleaning solvents, and lubricants, field strip the shotgun in accordance with TM 1003A/07172A/09081A-13P Operator and Maintenance Manual, Model 500, Mossburg 12 Gauge Shotgun.

ELO: 1371-MOBL-2013e

ELO TEXT: Given a shotgun, small arms maintenance equipment, approved cleaning solvents, and lubricants, clean the shotgun to keep the shotgun operational/serviceable in accordance with TM 1003A/07172A/09081A-13P Operator and Maintenance Manual, Model 500, Mossburg 12 Gauge Shotgun.

ELO: 1371-MOBL-2013f

ELO TEXT: Given a cleaned, field stripped shotgun, reassemble the shotgun to operational status in accordance with TM 1003A/07172A/09081A-13P Operator and Maintenance Manual, Model 500, Mossburg 12 Gauge Shotgun.

ELO: 1371-MOBL-2013g

ELO TEXT: Given a reassembled shotgun, perform a function check to ensure the shotgun is operational in accordance with TM 1003A/07172A/09081A-13P Operator and Maintenance Manual, Model 500, Mossburg 12 Gauge Shotgun.

ELO: 1371-MOBL-2013h

ELO TEXT: Given a shotgun and the requirement, demonstrate the tactical carries with both strong and weak side in accordance with MCRP 3-01A Rifle Marksmanship.

ELO: 1371-MOBL-2013i

ELO TEXT: Given a shotgun, ammunition, and the requirement, load the shotgun in accordance with TM 1003A/07172A/09081A-13P Operator and Maintenance Manual, Model 500, Mossburg 12 Gauge Shotgun.

ELO: 1371-MOBL-2013j

ELO TEXT: Given a shotgun, ammunition, and the requirement, cycle the shotgun in accordance with TM 1003A/07172A/09081A-13P Operator and Maintenance Manual, Model 500, Mossburg 12 Gauge Shotgun.

ELO: 1371-MOBL-2013k

ELO TEXT: Given a shotgun, personal protective equipment (PPE), targets, and ammunition, while employing combat marksmanship techniques, engage stationary targets on command from 15 yards per the applicable references and Range SOP.

ELO: 1371-MOBL-2013l

ELO TEXT: After engaging targets, having been given the cease fire and all clear commands and command to proceed down range, assess ammunition effects on the paper targets, noting the effects of the shotgun pattern per the applicable references and Range SOP.

ELO: 1371-MOBL-2013m

ELO TEXT: Given a shotgun, ammunition, and the requirement, perform immediate action drills in accordance with TM 1003A/07172A/09081A-13P Operator and



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Maintenance Manual, Model 500, Mossburg 12 Gauge Shotgun and Range SOP.

ELO: 1371-MOBL-2013n

ELO TEXT: Given a shotgun, ammunition, and the requirement, perform remedial action drills in accordance with TM 1003A/07172A/09081A-13P Operator and Maintenance Manual, Model 500, Mossburg 12 Gauge Shotgun and Range SOP.

TASK: 1371-MOBL-2014 DESC:

TLO: 1371-MOBL-2014

TLO TEXT: Given a shotgun, personal protective equipment (PPE), targets and ammunition, perform select shot drills with the shotgun without allowing the shotgun to cycle out of ammunition.

ELO: 1371-MOBL-2014a

ELO TEXT: Given a shotgun, personal protective equipment (PPE), targets and ammunition, engage targets with the magazine tube not fully filled without allowing the shotgun to cycle out of ammunition per the applicable references and Range SOP.

ELO: 1371-MOBL-2014b

ELO TEXT: Given a shotgun, personal protective equipment (PPE), targets and ammunition, engage targets with the magazine tube fully filled without allowing the shotgun to cycle out of ammunition per the applicable references and Range SOP.

TASK: 1371-MOBL-2016 DESC:

TLO: 1371-MOBL-2016

TLO TEXT: Given a determined point of entry to breach, a shotgun, ammunition, personal protective equipment (PPE), and a door in frame with lockset, conduct ballistic breach to defeat the target in accordance with FM 3-06.11 Combined Arms Operations in Urban Terrain.

ELO: 1371-MOBL-2016a

ELO TEXT: Given a determined point of entry to breach, a shotgun, ammunition, personal protective equipment, and a door in a frame with lockset, conduct a "strong" hand, locking point breach to defeat the target while limiting collateral damage in accordance with Guidebook for Assault Entry Techniques.

ELO: 1371-MOBL-2016b

ELO TEXT: Given a determined point of entry to breach, a shotgun, ammunition, personal protective equipment, and a door in a frame with lockset, conduct a "weak" hand, locking point breach to defeat the target while limiting collateral damage in accordance with Guidebook for Assault Entry Techniques.

ELO: 1371-MOBL-2016c

ELO TEXT: Given a determined point of entry to breach, a shotgun, ammunition, personal protective equipment, and a door in a frame with lockset, conduct a "strong" hand, hinge breach to defeat the target while limiting collateral damage in accordance with Guidebook for Assault Entry Techniques.

ELO: 1371-MOBL-2016d

ELO TEXT: Given a determined point of entry to breach, a shotgun, ammunition, personal protective equipment, and a door in a frame with lockset, conduct a "weak" hand, hinge breach to defeat the target while limiting collateral damage in accordance with Guidebook for Assault Entry Techniques.



COMBAT ENGINEER NCO (WORKING)
LEARNING OBJECTIVE/OUTCOME REPORT

TASK: 1371-MOBL-2018 DESC:

TLO: 1371-MOBL-2018

TLO TEXT: Given a tactical situation, a route to be swept, route sweeping equipment, a map, personnel, and a route sweep order, lead a dismounted route sweep to locate, mark, and/or reduce all explosive hazards/obstacles on the designated route in accordance with MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1371-MOBL-2018a

ELO TEXT: Given a tactical situation and a dismounted route sweep mission, visually identify the probable location for explosive hazard threat emplacement per threat doctrine and MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1371-MOBL-2018b

ELO TEXT: Given a tactical situation and a dismounted route sweep mission, determine the sweep team task organization to meet mission requirements in accordance with MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1371-MOBL-2018c

ELO TEXT: Given a tactical situation and a dismounted route sweep mission, determine specific equipment required for the task organized teams to meet mission requirements in accordance with MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1371-MOBL-2018d

ELO TEXT: As a member of a team, given a tactical situation, a route sweep mission and all necessary tools, Class V and equipment, conduct dismounted route sweep operations to locate all explosive hazards (IEDs, mines, boobytraps, etc.), ensuring they are detected, marked, and/or reduced in accordance with MCRP 3-17.2D Explosive Hazard Operations.

TASK: 1371-MOBL-2019 DESC:

TLO: 1371-MOBL-2019

TLO TEXT: Given a designated target, breaching tools, and personal protective equipment (PPE), perform manual breaching to execute a successful breach utilizing the appropriate mechanical method in accordance with MCWP 3-35.3 Military Operations on Urbanized Terrain (MOUT).

ELO: 1371-MOBL-2019a

ELO TEXT: Given a target, an Assault Breacher's Kit and any other necessary material, select a mechanical breaching tool resulting in 100% penetration of the target while limiting the amount of collateral damage and which allows entry in accordance with MCWP 3-35.3 Military Operations on Urbanized Terrain (MOUT) and Guidebook for Assault Entry Techniques Volume 1 and 2.

ELO: 1371-MOBL-2019b

ELO TEXT: Given a target, an Assault Breacher's Kit and any other necessary material, employ a mechanical breaching tool, resulting in 100% penetration of the target while limiting the amount of collateral damage and which allows entry in accordance with MCWP 3-35.3 Military Operations on Urbanized Terrain (MOUT) and Guidebook for Assault Entry Techniques Volume 1 and 2.

TASK: 1371-MOBL-2021 DESC:

TLO: 1371-MOBL-2021



COMBAT ENGINEER NCO (WORKING)
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TLO TEXT: Given a tactical situation, a route/area to be cleared, clearance equipment, a map, and an operation order, lead Route and Area Clearance Operations to locate, identify, mark, and/or reduce all explosive/non-explosive obstacles on the designate route/area.

ELO: 1371-MOBL-2021a

ELO TEXT: Without the aid of references, identify the phases of mounted route and area clearance operations per MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations.

ELO: 1371-MOBL-2021b

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

ELO: 1371-MOBL-2021c

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

ELO: 1371-MOBL-2021d

ELO TEXT: Without the aid of references, state the capabilities of the CAT III Mine-Protected Clearance Vehicle (MPCV) per MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations and applicable technical manuals.

ELO: 1371-MOBL-2021e

ELO TEXT: With the aid of references, identify the components of a Vehicle-Mounted Mine Detector (VMMD) set per MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations and applicable technical manuals.

ELO: 1371-MOBL-2021f

ELO TEXT: Given a route/area to be cleared and without references, determine the task organization of an engineer squad to conduct mounted route and area clearances in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations.

ELO: 1371-MOBL-2021g

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

ELO: 1371-MOBL-2021h

ELO TEXT: Given a route/area to be cleared and without references, identify the probable location of explosive/non-explosive obstacles while conducting mounted route and area clearance operations in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations.

ELO: 1371-MOBL-2021i

ELO TEXT: Given a tactical scenario, a route clearance order, Class V, engineer tools and equipment, and as a member of a team, conduct mounted route clearing operations to ensure sufficient mobility to support the concept of operations and the commander's intent in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations and applicable references.

TASK: 1371-MOBL-2022 DESC:

TLO: 1371-MOBL-2022

TLO TEXT: Given an operating environment, suspected explosive hazards, combat engineer



COMBAT ENGINEER NCO (WORKING)
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equipment, field protective equipment and publications/ORDATA II, identify Explosive Hazards (EH) by category, country of origin, type of function, safeties and conditions.

ELO: 1371-MOBL-2022a

ELO TEXT: With aid of references, define the terminology/symbols of explosive hazards in accordance with applicable references.

ELO: 1371-MOBL-2022b

ELO TEXT: Without aid of references, identify markers and indicators of explosive hazards in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations.

ELO: 1371-MOBL-2022c

ELO TEXT: Without aid of references, provided an Improvised Explosive Device (IED) course, identify IEDs in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations.

ELO: 1371-MOBL-2022d

ELO TEXT: Without aid of references, shown types of boobytraps, identify the characteristics and components of boobytraps in accordance with MCRP 3-17.2D Explosive Hazard Operations.

ELO: 1371-MOBL-2022e

ELO TEXT: Without aid of references, shown types of thrown munitions, identify the characteristics and components of thrown munitions in accordance with MCRP 3-17.2D Explosive Hazard Operations and other applicable references.

ELO: 1371-MOBL-2022f

ELO TEXT: Without aid of references, shown types of projected munitions, identify the characteristics and components of projected munitions in accordance with MCRP 3-17.2D Explosive Hazard Operations and other applicable references.

ELO: 1371-MOBL-2022g

ELO TEXT: Without aid of references, shown types of dropped munitions, identify the characteristics and components of dropped munitions in accordance with MCRP 3-17.2D Explosive Hazard Operations and other applicable references.

ELO: 1371-MOBL-2022h

ELO TEXT: Without aid of references, shown types of placed munitions, identify the characteristics and components of placed munitions in accordance with MCRP 3-17.2D Explosive Hazard Operations and other applicable references.

ELO: 1371-MOBL-2022i

ELO TEXT: With aid of references, shown types of chemicals used in home made explosives (HME), identify components of HME in accordance with MCRP 3-17.2D Explosive Hazard Operations, MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations and other applicable references.

TASK: 1371-MOBL-2023 DESC:

TLO: 1371-MOBL-2023

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 in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations.



COMBAT ENGINEER NCO (WORKING)
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ELO: 1371-MOBL-2023a

ELO TEXT: With aid of references, define the Leader's Decision Considerations matrix in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1371-MOBL-2023b

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

ELO: 1371-MOBL-2023c

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

ELO: 1371-MOBL-2023d

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

ELO: 1371-MOBL-2023e

ELO TEXT: Provided an Improvised Explosive Device trail, explosive hazards (EH), engineer equipment and materials and without references, positively identify a suspected explosive hazard in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations, Country Handbook and ORDATA II publication/software.

ELO: 1371-MOBL-2023f

ELO TEXT: Provided an Improvised Explosive Device trail, explosive hazards (EH), engineer equipment and materials and without references, determine the required equipment for reduction of explosive hazards in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations.

ELO: 1371-MOBL-2023g

ELO TEXT: Provided an Improvised Explosive Device trail, explosive hazards (EH), engineer equipment and materials and without references, determine what Class V is needed for reduction of an explosive hazard in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations and applicable references.

ELO: 1371-MOBL-2023h

ELO TEXT: Provided an Improvised Explosive Device trail, explosive hazards (EH), engineer equipment and materials, Class V, and without references, prepare a firing system for reduction charge in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations and applicable references.

ELO: 1371-MOBL-2023i

ELO TEXT: Provided an Improvised Explosive Device trail, explosive hazards (EH), engineer equipment and materials, Class V, and without references, construct a charge in order to reduce an explosive hazard in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations and applicable references.

ELO: 1371-MOBL-2023j



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ELO TEXT: Provided an Improvised Explosive Device trail, explosive hazards (EH), engineer equipment and materials, Class V, and without references, follow the steps of preparing for detonation to reduce explosive hazard in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations and applicable references.

ELO: 1371-MOBL-2023k

ELO TEXT: Provided an Improvised Explosive Device trail, explosive hazards (EH), engineer equipment and materials, Class V, and without references, place a charge that will result in reducing the explosive hazard in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations and applicable references.

ELO: 1371-MOBL-2023l

ELO TEXT: Provided an Improvised Explosive Device trail, explosive hazards (EH), engineer equipment and materials, Class V, and without references, detonate the charge to achieve high order detonation to reduce explosive obstacle in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations and applicable references.

ELO: 1371-MOBL-2023m

ELO TEXT: Provided an Improvised Explosive Device trail, explosive hazards (EH), engineer equipment and materials, Class V, and without references, perform immediate action for misfires of explosive charges to reduce explosive obstacle in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations and applicable references.

ELO: 1371-MOBL-2023n

ELO TEXT: Provided an Improvised Explosive Device trail, explosive hazards (EH), engineer equipment and materials, and without references, confirm the results of the reduction of the explosive hazard in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations and applicable references.

ELO: 1371-MOBL-2023o

ELO TEXT: Provided an Improvised Explosive Device trail, explosive hazards (EH), engineer equipment and materials, and without references, retrieve remnants and components of destroyed munitions for intelligence gathering in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations and applicable references.

ELO: 1371-MOBL-2023p

ELO TEXT: With aid of references and recorded data, report the required data of the explosive hazard (reduced or bypassed) in accordance with MCIP 3-17.01 Combined Arms Improvised Explosive Device (IED) Defeat Operations.

TASK: 1371-MOBL-2035 DESC:

TLO: 1371-MOBL-2035

TLO TEXT: Given an operating environment, suspected explosive hazards, a combat engineer robot, personal protective equipment and references, operate a robot to perform remote operations without injury to personnel or damage to equipment, per the operator's manual.

ELO: 1371-MOBL-2035a

ELO TEXT: Given a robot and without references, state in writing the characteristics of a robot



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in accordance with applicable technical manuals.

ELO: 1371-MOBL-2035b

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

ELO: 1371-MOBL-2035c

ELO TEXT: Given a robot, an operating environment consisting of different types of terrain and obstacles, and references, determine a robot's best avenue of approach to a hazard in accordance with applicable technical manuals.

ELO: 1371-MOBL-2035d

ELO TEXT: Given a tactical scenario, robot, an operating environment consisting of different types of terrain and obstacles, and references, operate a robot in different environments and conditions in accordance with applicable technical manuals.

ELO: 1371-MOBL-2035e

ELO TEXT: Given a tactical scenario, robot, an operating environment consisting of different types of terrain and obstacles, and references, perform immediate/remedial actions in order to restore robot to operable conditions in accordance with applicable technical manuals.

ELO: 1371-MOBL-2035f

ELO TEXT: Given a tactical scenario, robot, an operating environment consisting of different types of terrain and obstacles, and references, conduct robotic reconnaissance on suspected objects in accordance with applicable technical manuals.

ELO: 1371-MOBL-2035g

ELO TEXT: Given a tactical scenario, robot, an operating environment consisting of different types of terrain and obstacles, and references, conduct recover robot to a safe area in accordance with applicable technical manuals.

ELO: 1371-MOBL-2035h

ELO TEXT: Given a robot, cleaning material, post-operation checklist, and references, conduct post-operational checks and procedures in accordance with applicable technical manuals.



COMBAT ENGINEER NCO (WORKING)
LEARNING OBJECTIVE/OUTCOME REPORT

DUTY: 1371-RECN DESC: RECONNAISSANCE

TASK: 1371-RECN-2001 DESC:

TLO: 1371-RECN-2001

TLO TEXT: Provided a mission, maps, personnel and equipment, appropriate reconnaissance reporting forms, overlay material, and references, conduct engineer reconnaissance to classify roads, routes, and bridges; evaluate tunnels, fords, and ferry sites; identify obstacles; bypasses; and record relevant engineer information on the appropriate reconnaissance forms and transferred to a map overlay using engineer/tactical symbols.

ELO: 1371-RECN-2001a

ELO TEXT: Given a tactical scenario, a mission, a route, map of area, GTA 5-2-5, blank engineer forms, compass, measuring device, engineer reconnaissance equipment, and references, classify a route using route classification formula per MCWP 3-14.4 Engineer Reconnaissance.

ELO: 1371-RECN-2001b

ELO TEXT: Given a tactical scenario, a mission, training area, map of area, GTA 5-2-5, blank engineer forms, compass, measuring device, engineer reconnaissance equipment, and references, classify a road, identifying all restrictive features on DA Form 1248 in accordance with MCWP 3-14.4 Engineer Reconnaissance.

ELO: 1371-RECN-2001c

ELO TEXT: Given a tactical scenario, a mission, training area, map of area, GTA 5-2-5, blank engineer forms, compass, measuring device, engineer reconnaissance equipment, and references, reconnoiter a river/stream for crossing operations annotating all critical information on DA Form 7398 in accordance with MCWP 3-14.4 Engineer Reconnaissance.

ELO: 1371-RECN-2001d

ELO TEXT: Given a tactical scenario, a mission, training area, map of area, GTA 5-2-5, blank engineer forms, compass, measuring device, engineer reconnaissance equipment, and references, reconnoiter a fording site, annotating all critical information on DA Form 1251 in accordance with MCWP 3-14.4 Engineer Reconnaissance.

ELO: 1371-RECN-2001e

ELO TEXT: Given a tactical scenario, a mission, training area, map of area, GTA 5-2-5, blank engineer forms, compass, measuring device, engineer reconnaissance equipment, and references, evaluate a ferrying site, annotating all critical information on DA Form 1252 in accordance with MCWP 3-14.4 Engineer Reconnaissance.

ELO: 1371-RECN-2001f

ELO TEXT: Given a tactical scenario, a mission, training area, map of area, GTA 5-2-5, blank engineer forms, compass, measuring device, engineer reconnaissance equipment, and references, reconnoiter a tunnel/overhead restrictive site, annotating all critical information on DA Form 1250 in accordance with MCWP 3-14.4 Engineer Reconnaissance.

ELO: 1371-RECN-2001g

ELO TEXT: Given a tactical scenario, a mission, a bridge, GTA 5-2-5, blank engineer forms, compass, measuring device, engineer reconnaissance equipment, and references, reconnoiter a bridge, annotating all critical information on DA Form 1249 in accordance with MCWP 3-14.4 Engineer Reconnaissance.

ELO: 1371-RECN-2001h

ELO TEXT: Given a tactical situation, critical bridge dimensions, GTA 05-07-013, DA Form



LEARNING OBJECTIVE/OUTCOME REPORT

1249, a calculator and references, classify the bridge to determine the military load classification, noting any special restrictions in accordance with MCWP 3-14.4 Engineer Reconnaissance.

ELO: 1371-RECN-2001i

ELO TEXT: Given a tactical scenario, a mission, mock training area, map of area, GTA 5-2-5, blank engineer forms, compass, measuring device, engineer reconnaissance equipment, and references, evaluate an urban environment, annotating above and below ground structures, infrastructure facilities, and other pertinent information in accordance with MCWP 3-14.4 Engineer Reconnaissance.

ELO: 1371-RECN-2001j

ELO TEXT: With the aid of references, given completed engineer reconnaissance forms, overlay sheet and references, create a map overlay utilizing the DA Form 1711-R and correct engineer reconnaissance symbols in accordance with MCWP 3-14.4 Engineer Reconnaissance.

TASK: 1371-RECN-2002 DESC:

TLO: 1371-RECN-2002

TLO TEXT: Provided a mission to conduct a reconnaissance of a target designated for demolition, map of area, compass, measuring tape, appropriate form(s), and references, conduct demolition reconnaissance to complete all blocks of the appropriate form(s) to determine quantity of explosives required to produce the desired effect on the target(s); determine the time, labor, and logistics necessary to accomplish the mission; and capture a sketch of the proposed target(s) in accordance with the MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-RECN-2002a

ELO TEXT: Given a mission to conduct demolition target reconnaissance, a map, a compass, and references, conduct map reconnaissance to the objective in accordance with MCWP 3-17.4 Engineer Reconnaissance.

ELO: 1371-RECN-2002b

ELO TEXT: Given a mission, a map, a compass, a tape measure, digital camera, appropriate form(s), references, and as a member of a team, reconnoiter to assigned objective within the specified time in accordance with mission guidance, MCWP 3-17.4 Engineer Reconnaissance and MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-RECN-2002c

ELO TEXT: Given a mission, a map, a compass, a tape measure, digital camera, appropriate form(s), references, and as a member of a team, estimate explosives and logistics required in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-RECN-2002d

ELO TEXT: Given a mission, a map, a compass, a tape measure, digital camera, appropriate form(s), references, and as a member of a team, estimate personnel and time required to complete mission on appropriate form(s) in accordance with MCRP 3-17.7L Explosives and Demolitions.

ELO: 1371-RECN-2002e

ELO TEXT: Given a mission, a map, a compass, a tape measure, digital camera, appropriate form(s), references, and as a member of a team, sketch side views of target and cross sections of members to be cut, performing demolition reconnaissance within the specified time on appropriate form(s) in accordance with MCRP 3-17.7L Explosives and Demolitions and MCRP 3-17B Engineer Forms and Reports.



LEARNING OBJECTIVE/OUTCOME REPORT

ELO: 1371-RECN-2002f

ELO TEXT: Given a mission, a map, a compass, a tape measure, digital camera, appropriate form(s), references, and as a member of a team, sketch a plan of the firing circuits and firing points within the specified time on appropriate form(s) in accordance with MCRP 3-17.7L Explosives and Demolitions and MCRP 3-17B Engineer Forms and Reports.

ELO: 1371-RECN-2002g

ELO TEXT: Given a mission, completed form(s), and references, submit required reconnaissance report form(s) depicting the demolition reconnaissance performed within the specified time on appropriate form(s) in accordance with MCRP 3-17.7L Explosives and Demolitions and MCRP 3-17B Engineer Forms and Reports.

COMBAT ENGINEER NCO (WORKING)
LEARNING OBJECTIVE/OUTCOME REPORT

DUTY: 1371-SURV DESC: Survivability

TASK: 1371-SURV-2001 DESC:

TLO: 1371-SURV-2001

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 Operations.

ELO: 1371-SURV-2001a

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 Operations.

ELO: 1371-SURV-2001b

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 Operations.

ELO: 1371-SURV-2001c

ELO TEXT: Given a force protection requirement and references, plan an Entry Control Point (ECP) to counteract the known effects of enemy direct fire, indirect fire, and explosive weapons in accordance with GTA 90-01-011 Joint Forward Operations Base (JFOB) Protection Handbook.

ELO: 1371-SURV-2001d

ELO TEXT: Given a force protection requirement and references, select the materials needed to construct positions (survivability and Entry Control Points) to counteract the known effects of enemy direct fire, indirect fire, and explosive weapons in accordance with MCWP 3-17.6 Survivability Operations and GTA 90-01-011 Joint Forward Operations Base (JFOB) Protection Handbook.



COMBAT ENGINEER NCO (WORKING)
LEARNING OBJECTIVE/OUTCOME REPORT

DUTY: 1371-VERT DESC: Vertical Construction

TASK: 1371-VERT-2002 DESC:

TLO: 1371-VERT-2002

TLO TEXT: Provided a construction site, construction blueprints/drawings, design specifications, an engineer carpenter's kit, Class IV, and references, layout wood frame structure to ensure that building corners are exactly 90 degrees; truss jigs are built to the specified pitch; the sum of stair stringer risers and treads is between 17 and 19 inches; and walls are level and plumb.

ELO: 1371-VERT-2002a

ELO TEXT: Provided construction blueprints/drawings, design specifications, and references, read construction blueprints/drawings to identify building dimensions, elevations, components, component location and design in accordance with MCRP 3-17.7C Carpentry.

ELO: 1371-VERT-2002b

ELO TEXT: Provided a construction site, construction blueprints/drawings, design specifications, an engineer carpenter's kit, Class IV, and the references, establish building lines using a batter board system ensuring that the building corners are exactly 90 degrees in accordance with MCRP 3-17.7C Carpentry.

ELO: 1371-VERT-2002c

ELO TEXT: Provided a construction site, construction blueprints/drawings, design specifications, an engineer carpenter's kit, Class IV, and the references, use survey equipment during construction as required ensuring that building components are square, level, and plumb in accordance with MCRP 3-17.7C Carpentry and applicable references.

ELO: 1371-VERT-2002d

ELO TEXT: Provided construction blueprints/drawings, design specifications, and the references, identify floor components to determine the construction requirements in accordance with MCRP 3-17.7C Carpentry.

ELO: 1371-VERT-2002e

ELO TEXT: Provided a construction site, construction blueprints/drawings, design specifications, an engineer carpenter's kit, Class IV, and the references, layout floor components ensuring floor components are properly spaced, braced, straight, and squared to specifications and in accordance with MCRP 3-17.7C Carpentry.

ELO: 1371-VERT-2002f

ELO TEXT: Provided construction blueprints/drawings, design specifications, and references, identify wall components to determine the construction requirements in accordance with MCRP 3-17.7C Carpentry.

ELO: 1371-VERT-2002g

ELO TEXT: Provided a construction site, construction blueprints/drawings, design specifications, an engineer carpenter's kit, Class IV, and the references, layout wall components ensuring wall components are properly spaced, level, straight, and plumb in accordance with MCRP 3-17.7C Carpentry.

ELO: 1371-VERT-2002h

ELO TEXT: Provided construction blueprints/drawings, design specifications, and references, identify truss/rafter components to determine the construction requirements in accordance with MCRP 3-17.7C Carpentry.

ELO: 1371-VERT-2002i



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ELO TEXT: Provided a construction site, construction blueprints/drawings, design specifications, an engineer carpenter's kit, Class IV, and the references, layout truss components ensuring trusses are built to the specified pitch in accordance with MCRP 3-17.7C Carpentry.

ELO: 1371-VERT-2002j

ELO TEXT: Provided construction blueprints/drawings, design specifications, and references, identify stair components to determine the construction requirements in accordance with MCRP 3-17.7C Carpentry.

ELO: 1371-VERT-2002k

ELO TEXT: Provided a construction site, construction blueprints/drawings, design specifications, an engineer carpenter's kit, Class IV, and the references, layout stair components ensuring stairs meet design specifications equating to the sum of stair stringer risers and treads is between 17 and 19 inches in accordance with MCRP 3-17.7C Carpentry.



COMBAT ENGINEER NCO (WORKING)
LEARNING OBJECTIVE/OUTCOME REPORT

DUTY: ILC-IMPL DESC: Implement

TASK: ILC-IMPL-2100 DESC:

TLO: ILC-IMPL-2100

TLO TEXT: Given instructional materials and references, lead guided discussion to influence attitudes and ensure the transfer of knowledge.

ELO: ILC-IMPL-2100a

ELO TEXT: Given instructional materials and references, demonstrate an understanding of the definition of guided discussion based on performance in accordance with MCRP 6-11B W/CH 1, Appendix A.

ELO: ILC-IMPL-2100b

ELO TEXT: Given instructional materials and references, develop discussion leader's outline to assist the instructor in leading the guided discussion in accordance with MCRP 6-11B W/CH 1.

ELO: ILC-IMPL-2100c

ELO TEXT: Given instructional materials and references, prepare for a guided discussion to ensure guided discussion fulfills desired learning outcomes in accordance with MCRP 6-11B W/CH 1.

ELO: ILC-IMPL-2100d

ELO TEXT: Given instructional materials and references, facilitate a guided discussion to fulfill desired learning outcomes in accordance with MCRP 6-11B W/CH 1.

ELO: ILC-IMPL-2100e

ELO TEXT: Given instructional materials and references, evaluate the guided discussion to ensure achievement of learning outcomes.

