

ENGINEER OPERATIONS CHIEF
Concept Card Report

ANNEX A - Fundamentals

LESSON ID: C-04A01

HOURS: 11.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: OPERATIONAL LEVEL OF ENGINEERING

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
GD	3.00	12 : 1
GS	3.00	12 : 1
IL	5.00	12 : 1

MEDIA: CPU, DB, PPT, SMB, SO

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Provided a mission, commander's intent and resources, arrange external support for engineer projects/operations to provide all required support for a project or operation to meet the desired endstate. (1371-EOPS-2012)
- 2 . Given a mission, commander's intent, and references, deliver a military brief to provide an oral description of the current engineer situation, proposed execution, and logistical support capabilities and limitations. (1371-ADMN-2002)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given the requirement, identify Marine Corps competency (functional components) in accordance with MCWP 3-40.8 Marine Corps Competency. (1371-EOPS-2012a)
- 2 . Given the requirement, identify Unified Combatant Commands in accordance with current doctrine and MCWP 3-40.8 Marine Corps Competency. (1371-EOPS-2012b)
- 3 . Given the requirement, state the engineer fundamentals in joint operations in accordance with JP 3-34



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX A - Fundamentals

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CATEGORY: Training

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PHASE:

GROUP

Joint Engineer Operations. (1371-EOPS-2012c)

- 4 . Given the requirement, identify the engineer functions/activities in joint operations in accordance with MCWP 3-17 Engineering Operations and JP 3-34 Joint Engineer Operations. (1371-EOPS-2012d)
- 5 . Given the requirement, identify the engineer support required for joint functions in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012e)
- 6 . Given the requirement, identify Army engineer capabilities to support joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012f)
- 7 . Given the requirement, identify Navy engineer capabilities to support joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012g)
- 8 . Given the requirement, identify Air Force engineer capabilities to support joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012h)
- 9 . Given the requirement, identify other engineer capabilities (HN, USG, Contractors, etc.) to support joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012i)
- 10 . Given the requirement, state the responsibilities of command engineer staff to support the Geographic Combatant Commander (GCC) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012j)
- 11 . Given the requirement, state the responsibilities of the subordinate joint force engineer staff to support the Joint Force Commander (JFC) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012k)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX A - Fundamentals

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CATEGORY: Training

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PHASE:

GROUP

- 12 . Given the requirement, state the relationship of engineer forces (service component command) to support the Joint Force Commander (JFC) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012l)
- 13 . Given the requirement, state the relationship of engineer forces (functional components) under the Joint Force Commander (JFC) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012m)
- 14 . Given the requirement, state requirements of establishing a Joint Task Force (JTF) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012n)
- 15 . Given the requirement, identify engineer specific Boards, Bureaus, Centers, Cells, and Working Groups (B2C2WG) to support the Joint Task Force (JTF) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012o)
- 16 . Given the requirement, state the three levels of engineer planning (staff) in joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012p)
- 17 . Given the requirement, identify the general planning considerations the joint engineer staff should address in planning joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012q)
- 18 . Given the requirement, identify the functional planning considerations the joint engineer staff should address in planning joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012r)
- 19 . Given the requirement, identify the detailed planning considerations the joint engineer staff should



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX A - Fundamentals

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PHASE:

GROUP

address in planning joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012s)

- 20 . Given the requirement, identify the requirements for contract support in joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012t)
- 21 . Given the requirement, identify engineer support requirements for Homeland Security in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012u)
- 22 . Provided existing unit after action reports, Marine Corps Lessons Learned (MCLL) information or real world events, research critical engineer issues that affect the MAGTF to compile notes to produce a draft outline for professional writing. (1371-ADMN-2002f)
- 23 . With completed research notes, write an essay on a critical engineer issue that affects the MAGTF to resolve shortcomings or expound on successful accomplishments. (1371-ADMN-2002g)

NOTE(S):

This class instructs students on organic/non-organic engineer units that support the MAGTF and joint operations. Students will learn requirements and responsibilities of staff billets and functions that support the Joint Force Commander, Geographic Combatant Commander, and Subordinate Joint Engineer Staff(s). Also, students will learn levels of planning and competency for joint engineer operations/projects.

Three guest speaker(s) from MARFORSYSCOM, HQ I&L LPE, PPO, MSCs, etc. (engineer advocates/proponents) will be invited to discuss engineer topics within their respective area(s) for 1 hour each as annotated (total of 3 hours) with a follow-on of 1 hour respectively for allowance of guided discussion/questions.

Demonstration time annotated (1 hour) will be used for instructor going through essay requirements/instructions for Concept card C-04A01XE Operational Level Engineering Exam (Essay).



ENGINEER OPERATIONS CHIEF
Concept Card Report

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PHASE:

GROUP

ORM Statement: There are no hazards associated with this class.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Aviation Ground Support	MCWP 3-21.1	
Command and Control	MCWP 3-43	
Doctrine for Planning Joint Operations	JP 5-0	
Engineering Operations	MCWP 3-17	
Joint Engineer Operations	JP 3-34	
Joint Force Land Component Commander (JFLCC) Handbook.	MCWP 3-40.7	
Logistics Operations	MCWP 4-1	
MAGTF Command and Control	MCWP 3-40.1	
MAGTF Planner's Reference Manual	MSTP PAM 5-0.3	
Marine Corps Center for Lessons Learned web site http://www.mccll.usmc.mil	MCCLL	
Marine Corps Componency	MCWP 3-40.8	
Marine Corps Operations	MCDP 1-0	
SeaBee Operations in the MAGTF	MCWP 4-11.5	
The Naval Beach Group	MCRP 4-11.3D/NWP 22.5	



ENGINEER OPERATIONS CHIEF
Concept Card Report

ANNEX A - Fundamentals

LESSON ID: C-04A01X

HOURS: 2.00

TYPE: Exam

CATEGORY: Training

TITLE: OPERATIONAL LEVEL OF ENGINEERING EXAM

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
X(W)	2.00	12 : 1

MEDIA: HO, SO

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Provided a mission, commander's intent and resources, arrange external support for engineer projects/operations to provide all required support for a project or operation to meet the desired endstate. (1371-EOPS-2012)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given the requirement, identify Marine Corps componency (functional components) in accordance with MCWP 3-40.8 Marine Corps Componency. (1371-EOPS-2012a)
- 2 . Given the requirement, identify Unified Combatant Commands in accordance with current doctrine and MCWP 3-40.8 Marine Corps Componency. (1371-EOPS-2012b)
- 3 . Given the requirement, state the engineer fundamentals in joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012c)
- 4 . Given the requirement, identify the engineer functions/activities in joint operations in accordance with MCWP 3-17 Engineering Operations and JP 3-34 Joint Engineer Operations. (1371-EOPS-2012d)
- 5 . Given the requirement, identify the engineer support required for joint functions in accordance with JP



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX A - Fundamentals

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HOURS: 2.00

TYPE: Exam

CATEGORY: Training

TITLE: OPERATIONAL LEVEL OF ENGINEERING EXAM

PHASE:

GROUP

3-34 Joint Engineer Operations. (1371-EOPS-2012e)

- 6 . Given the requirement, identify Army engineer capabilities to support joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012f)
- 7 . Given the requirement, identify Navy engineer capabilities to support joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012g)
- 8 . Given the requirement, identify Air Force engineer capabilities to support joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012h)
- 9 . Given the requirement, identify other engineer capabilities (HN, USG, Contractors, etc.) to support joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012i)
- 10 . Given the requirement, state the responsibilities of command engineer staff to support the Geographic Combatant Commander (GCC) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012j)
- 11 . Given the requirement, state the responsibilities of the subordinate joint force engineer staff to support the Joint Force Commander (JFC) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012k)
- 12 . Given the requirement, state the relationship of engineer forces (service component command) to support the Joint Force Commander (JFC) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012l)
- 13 . Given the requirement, state the relationship of engineer forces (functional components) under the Joint



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX A - Fundamentals

LESSON ID: C-04A01X

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TYPE: Exam

CATEGORY: Training

TITLE: OPERATIONAL LEVEL OF ENGINEERING EXAM

PHASE:

GROUP

Force Commander (JFC) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012m)

- 14 . Given the requirement, state requirements of establishing a Joint Task Force (JTF) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012n)
- 15 . Given the requirement, identify engineer specific Boards, Bureaus, Centers, Cells, and Working Groups (B2C2WG) to support the Joint Task Force (JTF) in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012o)
- 16 . Given the requirement, state the three levels of engineer planning (staff) in joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012p)
- 17 . Given the requirement, identify the general planning considerations the joint engineer staff should address in planning joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012q)
- 18 . Given the requirement, identify the functional planning considerations the joint engineer staff should address in planning joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012r)
- 19 . Given the requirement, identify the detailed planning considerations the joint engineer staff should address in planning joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012s)
- 20 . Given the requirement, identify the requirements for contract support in joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012t)



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX A - Fundamentals

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TYPE: Exam

CATEGORY: Training

TITLE: OPERATIONAL LEVEL OF ENGINEERING EXAM

PHASE:

GROUP

21 . Given the requirement, identify engineer support requirements for Homeland Security in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012u)

NOTE(S):

This exam will test students knowledge on joints engineering functions, capabilities, componencies, requirements, and planning considerations.

ORM Statement: There are no hazards associated with this exam.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Aviation Ground Support	MCWP 3-21.1	
Doctrine for Planning Joint Operations	JP 5-0	
Engineering Operations	MCWP 3-17	
Joint Engineer Operations	JP 3-34	
Joint Force Land Component Commander (JFLCC) Handbook.	MCWP 3-40.7	
Logistics Operations	MCWP 4-1	
MAGTF Command and Control	MCWP 3-40.1	
Marine Corps Componency	MCWP 3-40.8	
Marine Corps Operations	MCDP 1-0	
SeaBee Operations in the MAGTF	MCWP 4-11.5	
The Naval Beach Group	MCRP 4-11.3D/NWP 22.5	



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX A - Fundamentals

LESSON ID: C-04A01XE

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: OPERATIONAL LEVEL OF ENGINEERING EXAM (ESSAY)

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
X(P)	3.00	12 : 1

MEDIA: HO, PECL, REF

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Given a mission, commander's intent, and references, deliver a military brief to provide an oral description of the current engineer situation, proposed execution, and logistical support capabilities and limitations. (1371-ADMN-2002)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Provided existing unit after action reports, Marine Corps Lessons Learned (MCLL) information or real world events, research critical engineer issues that affect the MAGTF to compile notes to produce a draft outline for professional writing. (1371-ADMN-2002f)
- 2 . With completed research notes, write an essay on a critical engineer issue that affects the MAGTF to resolve shortcomings or expound on successful accomplishments. (1371-ADMN-2002g)

NOTE(S):

This performance examination consists of a essay based on real world experience, MCCLLs, or other engineer specific events related to MAGTF operations.

The examination will be graded based on Master/Non-Master criteria and submitted to Director/Deputy Director, Marine Corps Engineer Center for review and possible submission to professional journals (i.e., Marine Corps Engineer Association Magazine or Operational Engineer).



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX A - Fundamentals

LESSON ID: C-04A01XE

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: OPERATIONAL LEVEL OF ENGINEERING EXAM (ESSAY)

PHASE:

GROUP

Essay instructions will be presented to the student after lecture and guided discussion has been given in C-04A01 Operational Level of Engineering. This will occur the first week of the POI to allow adequate time for students to perform research and editing of essay to be presented. Students will brief the instructor staff on content during this 3 hour period.

ORM Statement: There are no hazards associated with this exam/essay.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Doctrine for Planning Joint Operations	JP 5-0	
Engineering Operations	MCWP 3-17	
MAGTF Command and Control	MCWP 3-40.1	
Marine Corps Center for Lessons Learned web site http://www.mccll.usmc.mil	MCCLL	
Marine Corps Operations	MCDP 1-0	



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX A - Fundamentals

LESSON ID: C-04A02

HOURS: 7.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: ENGINEER PLANNING

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
D	0.50	12 : 1
IL	4.50	12 : 1
PA	2.00	12 : 1

MEDIA: CPU, DB, MAPS, Map Pens, PPT, Ruler, SH, SMB, SO, TP

TERMINAL LEARNING OBJECTIVE(S)

- 1 . As a member of an operations planning team in a operating environment, given a higher headquarter's order, commander's guidance, and the reference, participate in the Marine Corps Planning Process (MCP) to produce plans and orders products which support the accomplishments of the mission and commander's intent in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, while implementing the orders process, determine what needs to be accomplished by problem framing the operation, identifying all engineer requirements while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001a)
- 2 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, while implementing the orders process, state requirements to assist in the development of courses of action (COA) while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001b)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX A - Fundamentals

LESSON ID: C-04A02

HOURS: 7.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: ENGINEER PLANNING

PHASE:

GROUP

- 3 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, state purpose in wargaming proposed courses of action while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001c)
- 4 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, state requirements to assist in course of action decision process while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001d)
- 5 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, develop required products while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001e)
- 6 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, while implementing the orders process, state requirements to transition from planning to accomplish a mission while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001f)

NOTE(S):

This class will instruct the students on the Marine Corps Planning Process (MCP) specific for the operational chief billet. Students will be evaluated on performance ELOs in C-04C01XP (Gap Crossing) concept card.

ORM Statement: There are no hazards associated with this lesson.

REFERENCE - TITLE

Engineer Forms and Reports

PUBLICATION ID

MCRP 3-17B

CHAPTER/PAGE



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX A - Fundamentals

LESSON ID: C-04A02

HOURS: 7.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: ENGINEER PLANNING

PHASE:

GROUP

Engineering Operations	MCWP 3-17
MAGTF Command and Control	MCWP 3-40.1
MAGTF Planner's Reference Manual	MSTP PAM 5-0.3
Marine Corps Planning Process	MCWP 5-1
Operational Planning Team Guide	MSTP PAM 5-0.2



ENGINEER OPERATIONS CHIEF
Concept Card Report

ANNEX A - Fundamentals

LESSON ID: C-04A02X

HOURS: 1.00

TYPE: Exam

CATEGORY: Training

TITLE: ENGINEER PLANNING EXAM

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
X(W)	1.00	12 : 1

MEDIA: HO, REF

TERMINAL LEARNING OBJECTIVE(S)

- 1 . As a member of an operations planning team in a operating environment, given a higher headquarter's order, commander's guidance, and the reference, participate in the Marine Corps Planning Process (MCP) to produce plans and orders products which support the accomplishments of the mission and commander's intent in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, while implementing the orders process, determine what needs to be accomplished by problem framing the operation, identifying all engineer requirements while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001a)
- 2 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, while implementing the orders process, state requirements to assist in the development of courses of action (COA) while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001b)
- 3 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, state purpose in wargaming proposed courses of action while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process.



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX A - Fundamentals

LESSON ID: C-04A02X

HOURS: 1.00

TYPE: Exam

CATEGORY: Training

TITLE: ENGINEER PLANNING EXAM

PHASE:

GROUP

(1371-PLAN-2001c)

- 4 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, state requirements to assist in course of action decision process while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001d)

- 5 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, develop required products while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001e)

NOTE(S):

This examination will test the students knowledge on proper conduct of engineer planning and MCP concepts. It is a companion piece to C-04C01XP and ensures that all students understand all aspects of MCP regardless of billet held during performance exam.

ORM Statement: There are no hazards associated with this exam.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Engineering Operations	MCWP 3-17	
MAGTF Command and Control	MCWP 3-40.1	
MAGTF Planner's Reference Manual	MSTP PAM 5-0.3	
Marine Corps Planning Process	MCWP 5-1	
Operational Planning Team Guide	MSTP PAM 5-0.2	



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX A - Fundamentals

LESSON ID: C-04A03

HOURS: 2.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: MILITARY BRIEFING

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
D	0.25	12 : 1
IL	1.00	12 : 1
PA	0.75	12 : 1

MEDIA: CPU, DB, PPT, SMB, SO

TERMINAL LEARNING OBJECTIVE(S)

1. Given a mission, commander's intent, and references, deliver a military brief to provide an oral description of the current engineer situation, proposed execution, and logistical support capabilities and limitations. (1371-ADMN-2002)

ENABLING LEARNING OBJECTIVE(S)

1. Given a mission, commander's intent, and references, select the type of brief to pass the required information in accordance with the mission per the commander's intent and MCWP 3-40.1 Command and Control. (1371-ADMN-2002a)
2. Given a mission, commander's intent, and references, design the brief to pass the required information in accordance with the mission per the commander's intent and MCWP 3-40.1 Command and Control. (1371-ADMN-2002b)
3. Given a mission, commander's intent, and references, develop the brief outline to pass the required information in accordance with the mission per the commander's intent and MCWP 3-40.1 Command and Control. (1371-ADMN-2002c)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX A - Fundamentals

LESSON ID: C-04A03

HOURS: 2.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: MILITARY BRIEFING

PHASE:

GROUP

- 4 . Given a mission, commander's intent, and references, prepare supporting documents for the brief to pass the required information in accordance with the mission per the commander's intent, MCWP 3-40.1 Command and Control, and MCWP 3-17 Engineering Operations. (1371-ADMN-2002d)

- 5 . Given a mission, commander's intent, and references, advise the commander of the engineer situation/mission employing effective briefing techniques to pass the required information in accordance with the mission per the commander's intent, MCWP 3-40.1 Command and Control, and MCWP 3-17 Engineering Operations. (1371-ADMN-2002e)

NOTE(S):

Students will be evaluated on 1371-ADMIN-2002 in C-04B03XP (Basecamp Planning), C-04C01XP (Gap Crossing) and C-04C03XP (Planning for Assured Mobility Operations in Explosive Hazard Environment) concept cards.

ORM Statement: There are no hazards associated with this lesson.

REFERENCE - TITLE

PUBLICATION ID

CHAPTER/PAGE

Engineering Operations

MCWP 3-17

MAGTF Command and Control

MCWP 3-40.1



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B01

HOURS: 19.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: PRODUCTION ESTIMATIONS

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
D	2.00	12 : 1
IL	14.00	12 : 1
PA	3.00	12 : 2

MEDIA: CALC, CPU, DB, PPT, SH, SMB, SO

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Provided a mission, construction drawings, blueprints, specifications, calculator, writing materials, appropriate form(s), and references, estimate requirements for engineer projects to list all personnel and equipment resources necessary to accomplish mission requirements in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2007)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a horizontal construction scenario and a blank scraper production worksheet, calculate scraper production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007a)
- 2 . Given a horizontal construction scenario and a blank bulldozer production worksheet, calculate bulldozer production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007b)
- 3 . Given a horizontal construction scenario and a blank grader production worksheet, calculate grader production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007c)
- 4 . Given a horizontal construction scenario and a blank scooploader production worksheet, calculate



ENGINEER OPERATIONS CHIEF
Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B01

HOURS: 19.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: PRODUCTION ESTIMATIONS

PHASE:

GROUP

scooploader production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007d)

- 5 . Given a horizontal construction scenario and a blank excavator production worksheet, calculate excavator production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007e)
- 6 . Given a horizontal construction scenario and a blank compactor production worksheet, calculate compactor production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007f)
- 7 . Given a horizontal construction scenario and a blank dump truck production worksheet, calculate dump truck production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007g)

NOTE(S):

This class will cover engineer equipment production calculations to support engineer operations and horizontal specific projects that utilize heavy equipment. Students will plan/calculate production and resources needed for projects to support mobility, countermobility, survivability and general engineering.

ORM Statement: There are no safety concerns associated with this lesson.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Construction Estimating	MCRP 3-17.7M	
Construction Project Management	MCRP 3-17.7F	
Earthmoving Operations	MCRP 3-17.7I	
Engineer Field Data	MCRP 3-17A	
Planning and Design of Roads, Airfields, and Heliports in the Theater of Operations - Airfield and Heliport Design	MCRP 3-17.7B	



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B01

HOURS: 19.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: PRODUCTION ESTIMATIONS

PHASE:

GROUP

Planning and Design of Roads, Airfields, and
Heliports in the Theater of Operations - Road
Design

MCRP 3-17.7A



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX B - General Engineering

LESSON ID: C-04B01X

HOURS: 2.00

TYPE: Exam

CATEGORY: Training

TITLE: PRODUCTION ESTIMATIONS EXAM

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
X(P)	1.00	12 : 1
X(W)	1.00	12 : 1

MEDIA: CALC, HO

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Provided a mission, construction drawings, blueprints, specifications, calculator, writing materials, appropriate form(s), and references, estimate requirements for engineer projects to list all personnel and equipment resources necessary to accomplish mission requirements in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2007)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a horizontal construction scenario and a blank scraper production worksheet, calculate scraper production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007a)
- 2 . Given a horizontal construction scenario and a blank bulldozer production worksheet, calculate bulldozer production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007b)
- 3 . Given a horizontal construction scenario and a blank grader production worksheet, calculate grader production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007c)
- 4 . Given a horizontal construction scenario and a blank scooploader production worksheet, calculate scooploader production in accordance with MCRP 3-17.7I Earthmoving Operations.



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX B - General Engineering

LESSON ID: C-04B01X

HOURS: 2.00

TYPE: Exam

CATEGORY: Training

TITLE: PRODUCTION ESTIMATIONS EXAM

PHASE:

GROUP

(1371-EOPS-2007d)

- 5 . Given a horizontal construction scenario and a blank excavator production worksheet, calculate excavator production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007e)
- 6 . Given a horizontal construction scenario and a blank compactor production worksheet, calculate compactor production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007f)
- 7 . Given a horizontal construction scenario and a blank dump truck production worksheet, calculate dump truck production in accordance with MCRP 3-17.7I Earthmoving Operations. (1371-EOPS-2007g)

NOTE(S):

This examination will test students knowledge (performance and written) on engineer equipment production calculations and horizontal specific projects that utilize heavy equipment. Students will be presented a test workbook to calculate production and resources needed for typical engineer projects.

ORM Statement: There are no safety concerns associated with this examination.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Earthmoving Operations	MCRP 3-17.7I	



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX B - General Engineering

LESSON ID: C-04B02 **HOURS:** 21.00
TYPE: Task Oriented
CATEGORY: Training
TITLE: PROJECT MANAGEMENT
PHASE:
GROUP

METHOD	HOURS	S:I RATIO
IL	10.00	12 : 1
PA	11.00	12 : 2

MEDIA: CALC, CPU, DB, E, PPT, REF, SMB, SO

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Provided a mission, construction drawings/blueprints, specifications, a calculator, writing materials, activity estimate sheets, and the reference, establish project/operation schedules to detail all personnel, equipment, and materials necessary to accomplish the mission while establishing a defined duration for each subtask and the overall project/operation and graphically depict the schedule in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a construction directive, project specifications, and the reference, create an activities list to develop a construction sequence and in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011a)
- 2 . Given a construction directive, a completed activity list and the reference, create a logic diagram/precedence network in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011b)
- 3 . Given a construction directive, a completed activity list, a completed logic diagram and the reference, estimate individual activity durations in accordance with MCRP 3-17.7M Construction Estimating and MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011c)



ENGINEER OPERATIONS CHIEF
Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B02

HOURS: 21.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: PROJECT MANAGEMENT

PHASE:

GROUP

- 4 . Given a construction directive, a completed activity list, a completed logic diagram, completed activity estimate sheets and the reference, create a project schedule in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011d)
- 5 . Given a completed project schedule, notional TO/TE constraints and the reference, perform resource leveling to eliminate constraints in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011e)
- 6 . Given a completed project schedule, notional progress reports and the reference, update the project schedule in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011f)

NOTE(S):

This class will train the students to plan and manage an engineer project schedule to support the mission requirements.

ORM Statement: There are no hazards associated with this lesson.

REFERENCE - TITLE

PUBLICATION ID

CHAPTER/PAGE

Construction Estimating

MCRP 3-17.7M

Construction Project Management

MCRP 3-17.7F



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX B - General Engineering

LESSON ID: C-04B02X

HOURS: 2.00

TYPE: Exam

CATEGORY: Training

TITLE: PROJECT MANAGEMENT EXAM

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
X(P)	1.50	12 : 1
X(W)	0.50	12 : 1

MEDIA: CALC, HO, REF

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Provided a mission, construction drawings/blueprints, specifications, a calculator, writing materials, activity estimate sheets, and the reference, establish project/operation schedules to detail all personnel, equipment, and materials necessary to accomplish the mission while establishing a defined duration for each subtask and the overall project/operation and graphically depict the schedule in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a construction directive, project specifications, and the reference, create an activities list to develop a construction sequence and in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011a)
- 2 . Given a construction directive, a completed activity list and the reference, create a logic diagram/precedence network in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011b)
- 3 . Given a construction directive, a completed activity list, a completed logic diagram and the reference, estimate individual activity durations in accordance with MCRP 3-17.7M Construction Estimating and MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011c)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B02X

HOURS: 2.00

TYPE: Exam

CATEGORY: Training

TITLE: PROJECT MANAGEMENT EXAM

PHASE:

GROUP

- 4 . Given a construction directive, a completed activity list, a completed logic diagram, completed activity estimate sheets and the reference, create a project schedule in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011d)

- 5 . Given a completed project schedule, notional TO/TE constraints and the reference, perform resource leveling to eliminate constraints in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011e)

- 6 . Given a completed project schedule, notional progress reports and the reference, update the project schedule in accordance with MCRP 3-17.7F Construction Project Management. (1371-EOPS-2011f)

NOTE(S):

This examination will test the students (performance and written) on planning and managing an engineer project schedule. Testing material consists of a project event in which will require the student to perform all enabling learning objectives to standards.

ORM Statement: There are no hazards associated with this exam.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Construction Estimating	MCRP 3-17.7M	
Construction Project Management	MCRP 3-17.7F	



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX B - General Engineering

LESSON ID: C-04B03

HOURS: 30.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: BASE CAMP PLANNING

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
IL	16.00	12 : 1
PA	14.00	12 : 2

MEDIA: CALC, CPU, DB, E, MAPS, Map Pens, PROT, REF, SH, SMB, SO

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Given a tactical situation, a map, an operations order, size and type of unit, and references, plan a base camp to meet or exceed the unit requirements and the commander's intent, while accounting for future expansion, in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, determine a suitable location for the base camp on a map, that satisfies the commander's intent in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002a)
- 2 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, determine the types of facilities required to support the unit per the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002b)
- 3 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, poster board, markers or pencils, as a member of a team with references, portray graphically the location of facilities within the base camp so that operational risk is minimized while meeting the



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B03

HOURS: 30.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: BASE CAMP PLANNING

PHASE:

GROUP

provisions of the concept of operations, the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002c)

4. Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, establish support relationships to facilitate construction of the base camp while remaining within the guidelines of the concept of operations and the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002d)
5. Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, utilize the critical path method to plan the construction timeline of a base camp per the concept of operations and the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002e)
6. Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, plan the road network of a base camp per the concept of operations, the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002f)
7. Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, determine the sanitation and hygiene facilities of a base camp per the concept of operations, the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002g)
8. Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, determine the utility (power and water) requirements to support a base camp per the concept of operations, the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002h)
9. Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a



ENGINEER OPERATIONS CHIEF
Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B03

HOURS: 30.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: BASE CAMP PLANNING

PHASE:

GROUP

base camp, as a member of a team with references, determine the fuel requirements to support a base camp and other operations per the concept of operations, the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002i)

- 10 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, determine force protection requirements to support a base camp and other operations per the concept of operations, the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002j)

NOTE(S):

This class covers engineer capabilities, responsibilities, concept of operations, planning, site selection, requirements, site layout, logistics, and operations/maintenance of base camps (to include forward operating bases).

Student instruction is broken down as follows:

Lecture (Base Camp=7 hrs; Fuels=2 hrs; Utilities=7 hrs)

Practical Application (14 hrs). Utilities Instruction Company provides dedicated instructor support for 4 hours of this PA time to assist with utilities component of the base camp plan.

ORM Statement: There are no hazards associated with this lesson.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Base Camps	MCRP 3-17.7N	
Bulk Liquid Operations	MCWP 4-11.6	
Combined Arms Obstacle Integration	MCWP 3-17.5	
Command and Control	MCWP 3-43	
Construction Project Management	MCRP 3-17.7F	



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B03

HOURS: 30.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: BASE CAMP PLANNING

PHASE:

GROUP

Earthmoving Operations	MCRP 3-17.7I
Engineering Operations	MCWP 3-17
Field Hygiene and Sanitation	MCRP 4-11.1D
Joint Entry Control Point & Escalation of Force Procedures	GTA 90-01-018
Joint Forward Operations Base (JFOB) Protection Handbook	GTA 90-01-011
Manual of Naval Preventive Medicine, Chapter 9, Preventive Medicine for Ground Forces	NAVMED P-5010-9
Petroleum and Water Logistics Operations	MCWP 4-11.6
Planning and Design of Roads, Airfields, and Heliports in the Theater of Operations - Airfield and Heliport Design	MCRP 3-17.7B
Planning and Design of Roads, Airfields, and Heliports in the Theater of Operations - Road Design	MCRP 3-17.7A
Survivability Operations	MCWP 3-17.6
Theater of Operations Electrical Systems	MCRP 3-17.7K



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX B - General Engineering

LESSON ID: C-04B03X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: BASE CAMP PLANNING EXAM

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
X(P)	3.00	12 : 2

MEDIA: CPU, DB, E, GTA, MAPS, Map Pens, PECL, PPT, SMB

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Provided a mission, commander's intent and resources, arrange external support for engineer projects/operations to provide all required support for a project or operation to meet the desired endstate. (1371-EOPS-2012)
- 2 . Given a mission, commander's intent, and references, deliver a military brief to provide an oral description of the current engineer situation, proposed execution, and logistical support capabilities and limitations. (1371-ADMN-2002)
- 3 . Given a tactical situation, a map, an operations order, size and type of unit, and references, plan a base camp to meet or exceed the unit requirements and the commander's intent, while accounting for future expansion, in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a mission, commander's intent, and references, select the type of brief to pass the required information in accordance with the mission per the commander's intent and MCWP 3-40.1 Command and Control. (1371-ADMN-2002a)
- 2 . Given a mission, commander's intent, and references, design the brief to pass the required information in accordance with the mission per the commander's intent and MCWP 3-40.1 Command and Control.



ENGINEER OPERATIONS CHIEF
Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B03X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: BASE CAMP PLANNING EXAM

PHASE:

GROUP

(1371-ADMN-2002b)

- 3 . Given a mission, commander's intent, and references, develop the brief outline to pass the required information in accordance with the mission per the commander's intent and MCWP 3-40.1 Command and Control. (1371-ADMN-2002c)
- 4 . Given a mission, commander's intent, and references, prepare supporting documents for the brief to pass the required information in accordance with the mission per the commander's intent, MCWP 3-40.1 Command and Control, and MCWP 3-17 Engineering Operations. (1371-ADMN-2002d)
- 5 . Given a mission, commander's intent, and references, advise the commander of the engineer situation/mission employing effective briefing techniques to pass the required information in accordance with the mission per the commander's intent, MCWP 3-40.1 Command and Control, and MCWP 3-17 Engineering Operations. (1371-ADMN-2002e)
- 6 . Given the requirement, identify Marine Corps componency (functional components) in accordance with MCWP 3-40.8 Marine Corps Componency. (1371-EOPS-2012a)
- 7 . Given the requirement, identify Unified Combatant Commands in accordance with current doctrine and MCWP 3-40.8 Marine Corps Componency. (1371-EOPS-2012b)
- 8 . Given the requirement, state the engineer fundamentals in joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012c)
- 9 . Given the requirement, identify the engineer functions/activities in joint operations in accordance with MCWP 3-17 Engineering Operations and JP 3-34 Joint Engineer Operations. (1371-EOPS-2012d)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B03X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: BASE CAMP PLANNING EXAM

PHASE:

GROUP

- 10 . Given the requirement, identify the engineer support required for joint functions in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012e)

- 11 . Given the requirement, identify Army engineer capabilities to support joint operations in accordance with JP 3-34 Joint Engineer Operations. (1371-EOPS-2012f)

- 12 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, determine a suitable location for the base camp on a map, that satisfies the commander's intent in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002a)

- 13 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, determine the types of facilities required to support the unit per the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002b)

- 14 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, poster board, markers or pencils, as a member of a team with references, portray graphically the location of facilities within the base camp so that operational risk is minimized while meeting the provisions of the concept of operations, the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002c)

- 15 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, establish support relationships to facilitate construction of the base camp while remaining within the guidelines of the concept of operations and the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002d)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B03X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: BASE CAMP PLANNING EXAM

PHASE:

GROUP

- 16 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, utilize the critical path method to plan the construction timeline of a base camp per the concept of operations and the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002e)
- 17 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, plan the road network of a base camp per the concept of operations, the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002f)
- 18 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, determine the sanitation and hygiene facilities of a base camp per the concept of operations, the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002g)
- 19 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, determine the utility (power and water) requirements to support a base camp per the concept of operations, the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002h)
- 20 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, determine the fuel requirements to support a base camp and other operations per the concept of operations, the commander's intent and in accordance with MCRP 3-17.7N Base Camps. (1371-PLAN-2002i)
- 21 . Given a tactical situation, a map, an operation order, commander's intent, the size of a unit to occupy a base camp, as a member of a team with references, determine force protection requirements to support a base camp and other operations per the concept of operations, the commander's intent and in accordance



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX B - General Engineering

LESSON ID: C-04B03X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: BASE CAMP PLANNING EXAM

PHASE:

GROUP

with MCRP 3-17.7N Base Camps. (1371-PLAN-2002j)

NOTE(S):

This test is a culminating event in General Engineering, Survivability, Mobility, and Counter-mobility core competencies. Students will plan and brief all aspects of base camp planning and design to the instructor staff and be graded per a performance checklist.

An instructor from UIC will observe the student confirmation briefs.

ORM Statement: There are no hazards associated with this exam.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Aviation Ground Support	MCWP 3-21.1	
Base Camps	MCRP 3-17.7N	
Bulk Liquid Operations	MCWP 4-11.6	
Bulk Liquids Operations	MCWP 4-25.5	
Combined Arms Obstacle Integration	MCWP 3-17.5	
Command and Control	MCWP 3-43	
Construction Estimating	MCRP 3-17.7M	
Construction Project Management	MCRP 3-17.7F	
Earthmoving Operations	MCRP 3-17.7I	
Engineer Field Data	MCRP 3-17A	
Engineering Operations	MCWP 3-17	
Field Hygiene and Sanitation	MCRP 4-11.1D	



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX B - General Engineering

LESSON ID: C-04B03X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: BASE CAMP PLANNING EXAM

PHASE:

GROUP

Joint Engineer Operations	JP 3-34
Joint Entry Control Point & Escalation of Force Procedures	GTA 90-01-018
Joint Forward Operations Base (JFOB) Protection Handbook	GTA 90-01-011
Logistics Operations	MCWP 4-1
MAGTF Command and Control	MCWP 3-40.1
Manual of Naval Preventive Medicine, Chapter 9, Preventive Medicine for Ground Forces	NAVMED P-5010-9
Petroleum and Water Logistics Operations	MCWP 4-11.6
Planning and Design of Roads, Airfields, and Heliports in the Theater of Operations - Airfield and Heliport Design	MCRP 3-17.7B
Planning and Design of Roads, Airfields, and Heliports in the Theater of Operations - Road Design	MCRP 3-17.7A
SeaBee Operations in the MAGTF	MCWP 4-11.5
Survivability Operations	MCWP 3-17.6
Theater of Operations Electrical Systems	MCRP 3-17.7K



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C01

HOURS: 11.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: GAP CROSSING OPERATIONS

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
D	1.00	12 : 1
IL	4.00	12 : 1
PA	6.00	12 : 2

MEDIA: CALC, CPU, DB, E, MAPS, Map Pens, PPT, PROT, REF, SH, SMB, SO

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Provided completed engineer form/report(s) and references, analyze engineer form/report(s) to determine relevant information, describe the impact on operations, and act on the information as required. (1371-EOPS-2003)
- 2 . Given a tactical situation, a map, an operations order, completed engineer reconnaissance forms and references, plan engineer aspects of gap crossing operations to ensure the crossing is supportable and consistent with the commander's intent, while accounting for all tactical control measures in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify the categories of gap crossing operations in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008a)
- 2 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify planning considerations for gap crossing(s) based on troops and fire support, logistics, the enemy, space, and terrain in accordance with MCWP 3-17.8 Combined



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C01

HOURS: 11.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: GAP CROSSING OPERATIONS

PHASE:

GROUP

Arms Mobility Operations. (1371-MOBL-2008b)

- 3 . Provided completed engineer forms and reports and references, analyze engineer forms and reports to determine the impact on current operations in accordance with concept of operation(s) and applicable references. (1371-EOPS-2003a)
- 4 . Provided completed engineer forms and reports and references, analyze engineer forms and reports to determine the effects on future operations in accordance with proposed courses of action(s), commander's intent and applicable references. (1371-EOPS-2003b)
- 5 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, select appropriate crossing means for the gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008c)
- 6 . Provided completed engineer forms and reports, proposed course(s) of action, commander's intent and references, develop intelligence products to support operational planning in accordance with applicable references. (1371-EOPS-2003c)
- 7 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify other required information pertaining to the enemy for a gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008d)
- 8 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify obstacle reconnaissance requirements for a gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008e)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C01

HOURS: 11.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: GAP CROSSING OPERATIONS

PHASE:

GROUP

- 9 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, recommend task organization for a gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008f)

- 10 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify the phases of a gap crossing operation and associated engineer tasks in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008g)

- 11 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify tactical control measures used during a gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008h)

- 12 . Provided completed engineer forms and reports, proposed course(s) of action, intelligence products, commander's intent and references, advise the commander of engineer estimate of supportability to proposed operation(s) in accordance with applicable references. (1371-EOPS-2003d)

NOTE(S):

This class involves teaching the students planning and execution of an opposed gap crossing operation. Students will be placed into teams for the evaluation of forms/reports, planning operations and briefing of their proposed plan. The practical application time is utilized for submitting requests for information, developing intelligence products, and detailed planning of a gap crossing for the follow-on performance exam scenario (C-04C01XP).

ORM Statement: There are no hazards associated with this lesson.

REFERENCE - TITLE

PUBLICATION ID

CHAPTER/PAGE

Combined Arms Mobility Operations

MCWP 3-17.8



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C01

HOURS: 11.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: GAP CROSSING OPERATIONS

PHASE:

GROUP

Engineer Field Data	MCRP 3-17A
Engineer Forms and Reports	MCRP 3-17B
Engineer Reconnaissance	MCWP 3-17.4
Engineering Operations	MCWP 3-17
Intelligence Preparation of the Battlefield/Battlespace	MCRP 2-3A
MAGTF Command and Control	MCWP 3-40.1
Marine Corps Planning Process	MCWP 5-1
Survivability Operations	MCWP 3-17.6



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C01X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: GAP CROSSING EXAM

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
X(P)	3.00	12 : 2

MEDIA: C, CPU, DB, E, MAPS, Map Pens, PECL, PPT

TERMINAL LEARNING OBJECTIVE(S)

- 1 . As a member of an operations planning team in a operating environment, given a higher headquarter's order, commander's guidance, and the reference, participate in the Marine Corps Planning Process (MCP) to produce plans and orders products which support the accomplishments of the mission and commander's intent in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001)

- 2 . Given a tactical situation, a map, an operations order, completed engineer reconnaissance forms and references, plan engineer aspects of gap crossing operations to ensure the crossing is supportable and consistent with the commander's intent, while accounting for all tactical control measures in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008)

- 3 . Provided completed engineer form/report(s) and references, analyze engineer form/report(s) to determine relevant information, describe the impact on operations, and act on the information as required. (1371-EOPS-2003)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Provided completed engineer forms and reports and references, analyze engineer forms and reports to determine the impact on current operations in accordance with concept of operation(s) and applicable references. (1371-EOPS-2003a)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C01X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: GAP CROSSING EXAM

PHASE:

GROUP

2. Provided completed engineer forms and reports and references, analyze engineer forms and reports to determine the effects on future operations in accordance with proposed courses of action(s), commander's intent and applicable references. (1371-EOPS-2003b)
3. Provided completed engineer forms and reports, proposed course(s) of action, commander's intent and references, develop intelligence products to support operational planning in accordance with applicable references. (1371-EOPS-2003c)
4. Provided completed engineer forms and reports, proposed course(s) of action, intelligence products, commander's intent and references, advise the commander of engineer estimate of supportability to proposed operation(s) in accordance with applicable references. (1371-EOPS-2003d)
5. Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify the categories of gap crossing operations in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008a)
6. Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify planning considerations for gap crossing(s) based on troops and fire support, logistics, the enemy, space, and terrain in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008b)
7. Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, select appropriate crossing means for the gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008c)
8. Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify other required information pertaining to the enemy for a gap



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C01X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: GAP CROSSING EXAM

PHASE:

GROUP

crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008d)

- 9 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify obstacle reconnaissance requirements for a gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008e)

- 10 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, recommend task organization for a gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008f)

- 11 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify the phases of a gap crossing operation and associated engineer tasks in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008g)

- 12 . Given a tactical situation, a map, a mission statement, completed engineer reconnaissance forms, commander's intent and references, identify tactical control measures used during a gap crossing operation in accordance with MCWP 3-17.8 Combined Arms Mobility Operations. (1371-MOBL-2008h)

- 13 . Given an operating environment (notional), higher headquarters' order, commander's guidance and the reference, while implementing the orders process, state requirements to transition from planning to accomplish a mission while participating in the Marine Corps Planning Process (MCP) and in accordance with MCWP 5-1 Marine Corps Planning Process. (1371-PLAN-2001f)

NOTE(S):



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C01X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: GAP CROSSING EXAM

PHASE:

GROUP

Students will be placed in 3-4 man groups and receive completed engineer forms/reports, scenario, and mission type orders to plan and brief a gap crossing operation. Students will be held to standards per a performance checklist (graded event).

ORM Statement: There are no hazards associated with this exam.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Combined Arms Mobility Operations	MCWP 3-17.8	
Engineer Field Data	MCRP 3-17A	
Engineer Forms and Reports	MCRP 3-17B	
Engineer Reconnaissance	MCWP 3-17.4	
Engineering Operations	MCWP 3-17	
Intelligence Preparation of the Battlefield/Battlespace	MCRP 2-3A	
MAGTF Command and Control	MCWP 3-40.1	
MAGTF Planner's Reference Manual	MSTP PAM 5-0.3	
Marine Corps Planning Process	MCWP 5-1	
Operational Planning Team Guide	MSTP PAM 5-0.2	
Survivability Operations	MCWP 3-17.6	



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C02

HOURS: 28.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: NON-STANDARD BRIDGING

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
D	2.00	12 : 1
IL	16.00	12 : 1
PA(I)	10.00	12 : 2

MEDIA: CALC, CPU, DB, GTA, M, PPT, REF, SMB, SO

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Given a requirement for non-standard gap crossing, completed engineer reconnaissance forms, a design MLC, and references, design a non-standard bridge showing all calculations for abutments (if required), substructure (if required), and superstructure components that will meet or exceed required MLC in accordance with MCRP 3-17.1B Military Non-Standard Bridges. (1371-MOBL-2009)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a list of nonstandard bridge components, identify the function of each component in accordance with MCRP 3-17.1B Military Non-Standard Bridges. (1371-MOBL-2009a)
- 2 . Given a requirement to span a gap, a military load classification, gap size and references, complete bridge design formulas so that both superstructure and substructure satisfy the military load class requirement in accordance with MCRP 3-17.1B Military Non-Standard Bridges. (1371-MOBL-2009b)

NOTE(S):

Students will be taught analytical and expedient field design methods for planning and constructing non-standard bridges to support mobility operations.



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C02

HOURS: 28.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: NON-STANDARD BRIDGING

PHASE:

GROUP

ORM Statement: There are no hazards associated with this lesson.

REFERENCE - TITLE

PUBLICATION ID

CHAPTER/PAGE

Engineer Field Data

MCRP 3-17A

Military Non-Standard Fixed Bridging

MCRP 3-17.1B



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C02X

HOURS: 4.00

TYPE: Exam

CATEGORY: Training

TITLE: NON-STANDARD BRIDGING EXAM

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
X(P)	4.00	12 : 1

MEDIA: CALC, HO, REF

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Given a requirement for non-standard gap crossing, completed engineer reconnaissance forms, a design MLC, and references, design a non-standard bridge showing all calculations for abutments (if required), substructure (if required), and superstructure components that will meet or exceed required MLC in accordance with MCRP 3-17.1B Military Non-Standard Bridges. (1371-MOBL-2009)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a list of nonstandard bridge components, identify the function of each component in accordance with MCRP 3-17.1B Military Non-Standard Bridges. (1371-MOBL-2009a)
- 2 . Given a requirement to span a gap, a military load classification, gap size and references, complete bridge design formulas so that both superstructure and substructure satisfy the military load class requirement in accordance with MCRP 3-17.1B Military Non-Standard Bridges. (1371-MOBL-2009b)

NOTE(S):

Students will be tested on knowledge (performance) for designing and constructing a non-standard bridge based on a scenario to attain necessary military load classification.

ORM Statement: There are no hazards associated with this exam.



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C02X

HOURS: 4.00

TYPE: Exam

CATEGORY: Training

TITLE: NON-STANDARD BRIDGING EXAM

PHASE:

GROUP

REFERENCE - TITLE

PUBLICATION ID

CHAPTER/PAGE

Engineer Field Data

MCRP 3-17A

Military Non-Standard Fixed Bridging

MCRP 3-17.1B



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C03

HOURS: 15.50

TYPE: Task Oriented

CATEGORY: Training

TITLE: PLANNING FOR ASSURED MOBILITY OPERATIONS IN AN EXPLOSIVE HAZARD ENVIRONMENT

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
D	1.00	12 : 1
IL	7.50	12 : 1
PA	7.00	12 : 2

MEDIA: CPU, DB, MAPS, Map Pens, PPT, SMB, SO

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Given a tactical scenario in an explosive hazard route or area, direct explosive hazards reduction operations to reduce explosive hazards safely for the assured mobility of operating forces. (1371-MOBL-2020)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a tactical scenario in an explosive hazard route or area, determine the mobility requirements to provide the assured mobility of operating forces in accordance with MCRP 3.17.2D Explosive Hazard Operations and MCIP 3-17.02 MAGTF Counter-Improvised Explosive Device Operations. (1371-MOBL-2020a)
- 2 . Given a tactical scenario in an explosive hazard route or area, identify the explosive hazard reduction operations to reduce explosive hazards safely to provide the assured mobility of operating forces in accordance with MCRP 3.17.2D Explosive Hazard Operations and MCIP 3-17.02 MAGTF Counter-Improvised Explosive Device Operations. (1371-MOBL-2020b)
- 3 . Given a tactical scenario in an explosive hazard route or area, analyze the operational environment to



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C03

HOURS: 15.50

TYPE: Task Oriented

CATEGORY: Training

TITLE: PLANNING FOR ASSURED MOBILITY OPERATIONS IN AN EXPLOSIVE HAZARD ENVIRONMENT

PHASE:

GROUP

identify potential explosive hazard locations that may affect the mobility of operating forces in accordance with MCIP 3-17.02 MAGTF Counter-Improvised Explosive Device Operations. (1371-MOBL-2020c)

4. Given a tactical scenario in an explosive hazard route or area, task organize personnel and equipment to conduct explosive hazard reduction operations to provide assured mobility of operating forces in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.02 MAGTF Counter-Improvised Explosive Device Operations. (1371-MOBL-2020d)
5. Given a tactical scenario in an explosive hazard route or area, identify explosive hazards that may affect the mobility of operating forces in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations. (1371-MOBL-2020e)
6. Given a tactical scenario in an explosive hazard route or area, develop explosive hazard reduction procedures to provide assured mobility of operating forces in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations. (1371-MOBL-2020f)
7. Given a tactical scenario in an explosive hazard route or area, develop explosive hazard reduction plan to provide assured mobility of operating forces in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations. (1371-MOBL-2020g)
8. Given a tactical scenario in an explosive hazard route or area, brief explosive hazard reduction plan to provide assured mobility of operating forces and safety of personnel and equipment in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations. (1371-MOBL-2020h)



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C03

HOURS: 15.50

TYPE: Task Oriented

CATEGORY: Training

TITLE: PLANNING FOR ASSURED MOBILITY OPERATIONS IN AN EXPLOSIVE HAZARD ENVIRONMENT

PHASE:

GROUP

NOTE(S):

This class will cover explosive hazard considerations, TTPs, planning associated with clearance of routes/areas for foot mobile/mounted tasks and convoy planning.

ORM Statement: There are no hazards associated with this lesson.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Combined Arms Improvised Explosive Device Defeat Operations	MCIP 3-17.01	
Combined Arms Mobility Operations	MCWP 3-17.8	
Explosive Hazard Operations	MCRP 3-17.2D	
Explosives and Demolitions	MCRP 3-17.7L	
MAGTF Counter-Improvised Explosive Device Operations	MCIP 3-17.02	



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C03X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: PLANNING FOR ASSURED MOBILITY OPERATIONS IN AN EXPLOSIVE HAZARD ENVIRONMENT EXAM

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
X(P)	3.00	12 : 2

MEDIA: AR, CPU, MAPS, Map Pens, PECL, PPT, SMB

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Given a tactical scenario in an explosive hazard route or area, direct explosive hazards reduction operations to reduce explosive hazards safely for the assured mobility of operating forces. (1371-MOBL-2020)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a tactical scenario in an explosive hazard route or area, determine the mobility requirements to provide the assured mobility of operating forces in accordance with MCRP 3.17.2D Explosive Hazard Operations and MCIP 3-17.02 MAGTF Counter-Improvised Explosive Device Operations. (1371-MOBL-2020a)
- 2 . Given a tactical scenario in an explosive hazard route or area, identify the explosive hazard reduction operations to reduce explosive hazards safely to provide the assured mobility of operating forces in accordance with MCRP 3.17.2D Explosive Hazard Operations and MCIP 3-17.02 MAGTF Counter-Improvised Explosive Device Operations. (1371-MOBL-2020b)
- 3 . Given a tactical scenario in an explosive hazard route or area, analyze the operational environment to identify potential explosive hazard locations the may affect the mobility of operating forces in accordance with MCIP 3-17.02 MAGTF Counter-Improvised Explosive Device Operations. (1371-MOBL-2020c)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C03X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: PLANNING FOR ASSURED MOBILITY OPERATIONS IN AN EXPLOSIVE HAZARD ENVIRONMENT EXAM

PHASE:

GROUP

4. Given a tactical scenario in an explosive hazard route or area, task organize personnel and equipment to conduct explosive hazard reduction operations to provide assured mobility of operating forces in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.02 MAGTF Counter-Improvised Explosive Device Operations. (1371-MOBL-2020d)
5. Given a tactical scenario in an explosive hazard route or area, identify explosive hazards that may affect the mobility of operating forces in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations. (1371-MOBL-2020e)
6. Given a tactical scenario in an explosive hazard route or area, develop explosive hazard reduction procedures to provide assured mobility of operating forces in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations. (1371-MOBL-2020f)
7. Given a tactical scenario in an explosive hazard route or area, develop explosive hazard reduction plan to provide assured mobility of operating forces in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations. (1371-MOBL-2020g)
8. Given a tactical scenario in an explosive hazard route or area, brief explosive hazard reduction plan to provide assured mobility of operating forces and safety of personnel and equipment in accordance with MCRP 3-17.2D Explosive Hazard Operations and MCIP 3-17.01 Combined Arms Improvised Explosive Device Defeat Operations. (1371-MOBL-2020h)

NOTE(S):

This exam will test students knowledge (performance) on mobility operations and planning at the staff level. Students



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX C - Mobility

LESSON ID: C-04C03X

HOURS: 3.00

TYPE: Exam

CATEGORY: Training

TITLE: PLANNING FOR ASSURED MOBILITY OPERATIONS IN AN EXPLOSIVE HAZARD ENVIRONMENT EXAM

PHASE:

GROUP

will be placed in 3-4 man teams and be required to brief on their proposed plan of action, resources needed, and information transition. This is a scenarion driven event and students will be held to standards per a performance checklist.

ORM Statement: There are no hazards associated with this exam.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Combined Arms Improvised Explosive Device Defeat Operations	MCIP 3-17.01	
Combined Arms Mobility Operations	MCWP 3-17.8	
Explosive Hazard Operations	MCRP 3-17.2D	
Explosives and Demolitions	MCRP 3-17.7L	
MAGTF Counter-Improvised Explosive Device Operations	MCIP 3-17.02	



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX D - Staff Functions

LESSON ID: C-04D01 **HOURS:** 15.00
TYPE: Task Oriented
CATEGORY: Training
TITLE: COMBAT OPERATIONS CENTER (COC) OPERATIONS
PHASE:
GROUP:

METHOD	HOURS	S:I RATIO
IL	5.00	12 : 1
PA	10.00	12 : 2

MEDIA: AIO, AR, COC_Sim, CPU, DB, GTA, MAPS, Map Pens, PPT, REF, SMB, SO

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Provided completed engineer form(s)/report(s), operations plan, map, unit SOP(s) and references, manage engineer forms/reports to ensure all engineer form(s) and/or report(s) are received from the reporting unit, evaluated to identify any deficiencies, and distributed/forwarded as required per the unit SOP and references. (1371-EOPS-2002)

- 2 . Provided a mission, personnel, a tent or other type of elemental shelter, communications equipment, and a site for the operations center, establish operations center in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a tactical scenario, commander's intent and references, select the appropriate type of Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001a)

- 2 . Given a tactical scenario, commander's intent and references, select the functions of each type of Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001b)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D01

HOURS: 15.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: COMBAT OPERATIONS CENTER (COC) OPERATIONS

PHASE:

GROUP

3. Given a tactical scenario, commander's intent and references, describe the organization of each type of Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001c)
4. Given a tactical scenario, commander's intent and references, state the procedures to establish a communication plan within the Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001d)
5. Given a tactical scenario, commander's intent and references, determine the physical layout of a Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001e)
6. Given a tactical scenario, commander's intent and references, list the security requirements for a Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001f)
7. Provided completed engineer form(s) and/or report(s), operations plan, map, unit SOP(s) and references, identify engineer forms and reports as required per the unit SOP and MCRP 3-17B Engineer Forms and Reports. (1371-EOPS-2002a)
8. Provided completed engineer form(s) and/or report(s), operations plan, map, unit SOP(s) and references, evaluate engineer forms and reports for deficiencies as required per the unit SOP and in accordance MCRP 3-17B Engineer Forms and Reports. (1371-EOPS-2002b)
9. Provided completed engineer form(s) and/or report(s), operations plan, map, unit SOP(s) and references, coordinate with the reporting unit to correct form and report deficiencies as required in accordance with the unit SOP, MCRP 3-17B Engineer Forms and Reports, and other applicable references.



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D01

HOURS: 15.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: COMBAT OPERATIONS CENTER (COC) OPERATIONS

PHASE:

GROUP

(1371-EOPS-2002c)

- 10 . Provided completed engineer form(s) and/or report(s), operations plan, map, unit SOP(s) and references, track engineer forms and reports as required in accordance with the unit SOP and MCWP 3-40.1 Command and Control. (1371-EOPS-2002d)

NOTE(S):

Students will be instructed on various COC functions and setups. Class field trip to Marine Air-Ground Task Force (MAGTF) Military Training Systems Support (MTSS) training facility will be conducted for C2PC/FB2C/BFT demonstration.

ORM Statement: There are no hazards associated with this lesson.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Engineer Field Data	MCRP 3-17A	
Engineer Forms and Reports	MCRP 3-17B	
Engineer Reconnaissance	MCWP 3-17.4	
Engineering Operations	MCWP 3-17	
Information Management	MCWP 3-40.2	
MAGTF Command and Control	MCWP 3-40.1	
Operational Terrain and Symbols	FM 5-101-5-1	
Petroleum and Water Logistics Operations	MCWP 4-11.6	
Survivability Operations	MCWP 3-17.6	



ENGINEER OPERATIONS CHIEF**Concept Card Report****ANNEX D - Staff Functions****LESSON ID:** C-04D01X**HOURS:** 1.00**TYPE:** Exam**CATEGORY:** Training**TITLE:** COMBAT OPERATIONS CENTER (COC) OPERATIONS EXAM**PHASE:****GROUP**

METHOD	HOURS	S:I RATIO
X(W)	1.00	12 : 1

MEDIA: HO**TERMINAL LEARNING OBJECTIVE(S)**

- 1 . Provided a mission, personnel, a tent or other type of elemental shelter, communications equipment, and a site for the operations center, establish operations center in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001)
- 2 . Provided completed engineer form(s)/report(s), operations plan, map, unit SOP(s) and references, manage engineer forms/reports to ensure all engineer form(s) and/or report(s) are received from the reporting unit, evaluated to identify any deficiencies, and distributed/forwarded as required per the unit SOP and references. (1371-EOPS-2002)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given a tactical scenario, commander's intent and references, select the appropriate type of Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001a)
- 2 . Given a tactical scenario, commander's intent and references, select the functions of each type of Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001b)
- 3 . Given a tactical scenario, commander's intent and references, describe the organization of each type of



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D01X

HOURS: 1.00

TYPE: Exam

CATEGORY: Training

TITLE: COMBAT OPERATIONS CENTER (COC) OPERATIONS EXAM

PHASE:

GROUP

Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001c)

4. Given a tactical scenario, commander's intent and references, state the procedures to establish a communication plan within the Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001d)
5. Given a tactical scenario, commander's intent and references, determine the physical layout of a Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001e)
6. Given a tactical scenario, commander's intent and references, list the security requirements for a Combat Operations Center (COC) in accordance with MCWP 3-40.1 Command and Control. (1371-EOPS-2001f)
7. Provided completed engineer form(s) and/or report(s), operations plan, map, unit SOP(s) and references, identify engineer forms and reports as required per the unit SOP and MCRP 3-17B Engineer Forms and Reports. (1371-EOPS-2002a)
8. Provided completed engineer form(s) and/or report(s), operations plan, map, unit SOP(s) and references, evaluate engineer forms and reports for deficiencies as required per the unit SOP and in accordance MCRP 3-17B Engineer Forms and Reports. (1371-EOPS-2002b)
9. Provided completed engineer form(s) and/or report(s), operations plan, map, unit SOP(s) and references, coordinate with the reporting unit to correct form and report deficiencies as required in accordance with the unit SOP, MCRP 3-17B Engineer Forms and Reports, and other applicable references. (1371-EOPS-2002c)



**ENGINEER OPERATIONS CHIEF
Concept Card Report**

ANNEX D - Staff Functions

LESSON ID: C-04D01X

HOURS: 1.00

TYPE: Exam

CATEGORY: Training

TITLE: COMBAT OPERATIONS CENTER (COC) OPERATIONS EXAM

PHASE:

GROUP

- 10. Provided completed engineer form(s) and/or report(s), operations plan, map, unit SOP(s) and references, track engineer forms and reports as required in accordance with the unit SOP and MCWP 3-40.1 Command and Control. (1371-EOPS-2002d)

NOTE(S):

Examination will test the students knowledge on COC type(s), establishments/displacements, setup/layout(s), functions, message handling, equipment, and staff responsibilities.

ORM Statement: There are no hazards associated with this lesson.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Engineer Field Data	MCRP 3-17A	
Engineer Forms and Reports	MCRP 3-17B	
Engineer Reconnaissance	GTA 5-2-5	
Engineer Reconnaissance	MCWP 3-17.4	
Engineering Operations	MCWP 3-17	
Information Management	MCWP 3-40.2	
MAGTF Command and Control	MCWP 3-40.1	
Operational Terrain and Symbols	FM 5-101-5-1	
Petroleum and Water Logistics Operations	MCWP 4-11.6	
Survivability Operations	MCWP 3-17.6	



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D02

HOURS: 15.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: EXECUTE THE DUTIES OF AN ENGINEER OPERATION CHIEF

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
D	1.00	12 : 1
IL	10.00	12 : 1
PA	4.00	12 : 2

MEDIA: CPU, DB, PPT, REF, SMB, SO, TPO

TERMINAL LEARNING OBJECTIVE(S)

1. Given an engineer unit, training requirements and references, manage unit training to meet training requirements sustaining engineer operations in accordance with NAVMC 3500.12_ Marine Corps Engineer and Utilities Training and Readiness Manual. (1371-ADMN-2001)

ENABLING LEARNING OBJECTIVE(S)

1. Given the requirement, identify the Marine Corps philosophy and principles of training in accordance with MCRP 3-OA Unit Training Management Guide and NAVMC 1553.3B Unit Training Management. (1371-ADMN-2001a)
2. Given the requirement, identify the application of the System Approach to Training (SAT) with regards to unit training management in accordance with MCRP 3-OA Unit Training Management Guide and NAVMC 1553.1_ Systems Approach to Training (SAT) Users Guide. (1371-ADMN-2001b)
3. Given the requirement, state the characteristics of Marine Corps training standards in accordance with MCRP 3-OA Unit Training Management Guide and other applicable reference(s). (1371-ADMN-2001c)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D02

HOURS: 15.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: EXECUTE THE DUTIES OF AN ENGINEER OPERATION CHIEF

PHASE:

GROUP

4. Given the requirement, described the Mission Essential Task List (METL) development process in accordance with MCRP 3-OA Unit Training Management Guide and other applicable reference(s). (1371-ADMN-2001d)
5. Given the requirement and references, identify characteristics/components of mission essential task(s) derived from the Mission Essential Task List (METL) in accordance with MCRP 3-OA Unit Training Management Guide, NAVMC 3500.12_ Marine Corps Engineer and Utilities Training and Readiness Manual, and other applicable Training & Readiness (T&R) manuals. (1371-ADMN-2001e)
6. Given the requirement, assess Training, Exercise, and Employment Plan (TEEP) distributed from higher to derive mission essential tasks required for unit training in accordance with commander's guidance, MCRP 3-OA Unit Training Management Guide, NAVMC 3500.12_ Marine Corps Engineer and Utilities Training and Readiness Manual, and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001f)
7. Given the requirement, identify the characteristics of training plans in accordance with MCRP 3-OA Unit Training Management Guide. (1371-ADMN-2001g)
8. Given the requirement, determine aiding and limiting factors for training planning in accordance with commander's guidance, training facility requirements, unit capabilities/limitations, unit support requirements, MCRP 3-OA Unit Training Management Guide and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001h)
9. Given the requirement, a notional TEEP report/schedule from higher, commander's guidance, and references, assist in the development of a long-range training plan/calendar(Division/Group/Wing..i.e. higher commands) in accordance with commander's guidance, MCRP 3-OA Unit Training Management Guide and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001i)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D02

HOURS: 15.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: EXECUTE THE DUTIES OF AN ENGINEER OPERATION CHIEF

PHASE:

GROUP

- 10 . Given the current Marine Corps Bulletin for annual training requirements (MCBUL 1500) and commander's training philosophy/guidance, identify annual training requirements (formal and ancillary) to aid in the development of short-, mid-, and long-range training plans in accordance with MCBUL 1500, commander's training philosophy/guidance, and other applicable HHQ orders/directives. (1371-ADMN-2001j)
- 11 . Given the requirement, a long-range training plan/calendar, commander's guidance, and references, develop a mid-range training plan/calendar in accordance with commander's guidance, MCRP 3-OA Unit Training Management Guide and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001k)
- 12 . Given the requirement, a mid-range training plan/calendar, commander's training guidance, and references, develop a short-range training plan/calendar in accordance with commander's guidance, MCRP 3-OA Unit Training Management Guide and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001l)
- 13 . Given the requirement, a subordinate unit training plans/calendars, commander's training guidance, and references, validate scheduled training events in accordance with commander's guidance, MCRP 3-OA Unit Training Management Guide and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001m)
- 14 . Given the requirement, subordinate unit training packages and references, review subordinate unit training packages/packets for completeness and supportability in accordance with unit training requirements, resource supportability, scheduling and other requirements for unit training per applicable references. (1371-ADMN-2001n)
- 15 . Given the requirement, notional Marine Corps Formal Schools Training Input Plan (TIP), and references, identify requirements for MOS skills progression courses in accordance with applicable



ENGINEER OPERATIONS CHIEF
Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D02

HOURS: 15.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: EXECUTE THE DUTIES OF AN ENGINEER OPERATION CHIEF

PHASE:

GROUP

orders and directives, and MCO 1553.2_ Management of Marine Corps Formal Schools and Detachment. (1371-ADMN-2001o)

16 . Given a unit training schedule, training event(s), and list of resources, identify the requirements of evaluating the training in accordance with MCRP 3-0A Unit Training Management Guide and NAVMC 1553.1_ Systems Approach to Training (SAT) Users Guide. (1371-ADMN-2001p)

17 . Given the requirements, identify the responsibilities to track/report completed training in accordance with MCRP 3-0A Unit Training Management Guide, NAVMC 1553.3B Unit Training Management, and NAVMC Directive 5040.6_ Marine Corps Readiness Inspections and Assessments. (1371-ADMN-2001q)

NOTE(S):

This class will instruct students on requirements (engineer specific) tasks for the conduct of individual and unit training. Students will use NAVMC 3500.12_ Engineer and Utilities Training Manual throughout the duration of this class. Students will also be taught the use of MCTIMS training resource module, training record module, data inputting/recording, and training reports.

ORM Statement: There are no hazards associated with this lesson.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Applicable Training and Readiness Manuals		
How to Conduct Training	MCRP 3-0B	
Information Management	MCWP 3-40.2	
Local Standard Operating Procedures (SOP)		
MAGTF Command and Control	MCWP 3-40.1	
MARINE CORPS READINESS INSPECTIONS	NAVMC 5040.6	



Date: 20150604

ENGINEER OPERATIONS CHIEF
Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D02

HOURS: 15.00

TYPE: Task Oriented

CATEGORY: Training

TITLE: EXECUTE THE DUTIES OF AN ENGINEER OPERATION CHIEF

PHASE:

GROUP

AND ASSESSMENTS

Management of Marine Corps Formal Schools and Training Detachments MCO 1553.2_

Marine Corps Engineer and Utilities Training and Readiness Manual NAVMC 3500.12_

Operational Risk Management (ORM) MCO 3500.27_

Systems Approach to Training (SAT) Users Guide NAVMC 1553.1_

Unit Training Management NAVMC 1553.3_

Unit Training Management Guide MCRP 3-0A



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D02X

HOURS: 2.00

TYPE: Exam

CATEGORY: Training

TITLE: EXECUTE THE DUTIES OF AN ENGINEER OPERATION CHIEF EXAM

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
X(P)	2.00	12 : 1

MEDIA: HO, REF, TPO

TERMINAL LEARNING OBJECTIVE(S)

- 1 . Given an engineer unit, training requirements and references, manage unit training to meet training requirements sustaining engineer operations in accordance with NAVMC 3500.12_ Marine Corps Engineer and Utilities Training and Readiness Manual. (1371-ADMN-2001)

ENABLING LEARNING OBJECTIVE(S)

- 1 . Given the requirement, identify the Marine Corps philosophy and principles of training in accordance with MCRP 3-OA Unit Training Management Guide and NAVMC 1553.3B Unit Training Management. (1371-ADMN-2001a)
- 2 . Given the requirement, identify the application of the System Approach to Training (SAT) with regards to unit training management in accordance with MCRP 3-OA Unit Training Management Guide and NAVMC 1553.1_ Systems Approach to Training (SAT) Users Guide. (1371-ADMN-2001b)
- 3 . Given the requirement, state the characteristics of Marine Corps training standards in accordance with MCRP 3-OA Unit Training Management Guide and other applicable reference(s). (1371-ADMN-2001c)
- 4 . Given the requirement, described the Mission Essential Task List (METL) development process in accordance with MCRP 3-OA Unit Training Management Guide and other applicable reference(s). (1371-ADMN-2001d)



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D02X

HOURS: 2.00

TYPE: Exam

CATEGORY: Training

TITLE: EXECUTE THE DUTIES OF AN ENGINEER OPERATION CHIEF EXAM

PHASE:

GROUP

5. Given the requirement and references, identify characteristics/components of mission essential task(s) derived from the Mission Essential Task List (METL) in accordance with MCRP 3-OA Unit Training Management Guide, NAVMC 3500.12_ Marine Corps Engineer and Utilities Training and Readiness Manual, and other applicable Training & Readiness (T&R) manuals. (1371-ADMN-2001e)
6. Given the requirement, assess Training, Exercise, and Employment Plan (TEEP) distributed from higher to derive mission essential tasks required for unit training in accordance with commander's guidance, MCRP 3-OA Unit Training Management Guide, NAVMC 3500.12_ Marine Corps Engineer and Utilities Training and Readiness Manual, and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001f)
7. Given the requirement, identify the characteristics of training plans in accordance with MCRP 3-OA Unit Training Management Guide. (1371-ADMN-2001g)
8. Given the requirement, determine aiding and limiting factors for training planning in accordance with commander's guidance, training facility requirements, unit capabilities/limitations, unit support requirements, MCRP 3-OA Unit Training Management Guide and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001h)
9. Given the requirement, a notional TEEP report/schedule from higher, commander's guidance, and references, assist in the development of a long-range training plan/calendar(Divison/Group/Wing..i.e. higher commands) in accordance with commander's guidance, MCRP 3-OA Unit Training Management Guide and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001i)
10. Given the current Marine Corps Bulletin for annual training requirements (MCBUL 1500) and commander's training philosophy/guidance, identify annual training requirements (formal and ancillary) to aid in the development of short-, mid-, and long-range training plans in accordance with MCBUL 1500, commander's training philosophy/guidance, and other applicable HHQ orders/directives.



ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D02X

HOURS: 2.00

TYPE: Exam

CATEGORY: Training

TITLE: EXECUTE THE DUTIES OF AN ENGINEER OPERATION CHIEF EXAM

PHASE:

GROUP

(1371-ADMN-2001j)

- 11 . Given the requirement, a long-range training plan/calendar, commander's guidance, and references, develop a mid-range training plan/calendar in accordance with commander's guidance, MCRP 3-OA Unit Training Management Guide and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001k)

- 12 . Given the requirement, a mid-range training plan/calendar, commander's training guidance, and references, develop a short-range training plan/calendar in accordance with commander's guidance, MCRP 3-OA Unit Training Management Guide and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001l)

- 13 . Given the requirement, a subordinate unit training plans/calendars, commander's training guidance, and references, validate scheduled training events in accordance with commander's guidance, MCRP 3-OA Unit Training Management Guide and other applicable Training and Readiness (T&R) manuals. (1371-ADMN-2001m)

- 14 . Given the requirement, subordinate unit training packages and references, review subordinate unit training packages/packets for completeness and supportability in accordance with unit training requirements, resource supportability, scheduling and other requirements for unit training per applicable references. (1371-ADMN-2001n)

- 15 . Given the requirement, notional Marine Corps Formal Schools Training Input Plan (TIP), and references, identify requirements for MOS skills progression courses in accordance with applicable orders and directives, and MCO 1553.2_ Management of Marine Corps Formal Schools and Detachment. (1371-ADMN-2001o)

- 16 . Given a unit training schedule, training event(s), and list of resources, identify the requirements of evaluating the training in accordance with MCRP 3-0A Unit Training Management Guide and NAVMC

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D02X

HOURS: 2.00

TYPE: Exam

CATEGORY: Training

TITLE: EXECUTE THE DUTIES OF AN ENGINEER OPERATION CHIEF EXAM

PHASE:

GROUP

1553.1_ Systems Approach to Training (SAT) Users Guide. (1371-ADMN-2001p)

- 17 . Given the requirements, identify the responsibilities to track/report completed training in accordance with MCRP 3-0A Unit Training Management Guide, NAVMC 1553.3B Unit Training Management, and NAVMC Directive 5040.6_ Marine Corps Readiness Inspections and Assessments. (1371-ADMN-2001q)

NOTE(S):

Students will be given a training order during PA time in Concept Card C-04D02 and examination outputs will be conducted during non-academic time as homework assignments to evaluate the students per standards set in T&R tasks. Time allotted on this concept card is for reviewing and grading purposes.

ORM Statement: There are no hazards associated with this examination.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Applicable Training and Readiness Manuals		
How to Conduct Training	MCRP 3-0B	
Information Management	MCWP 3-40.2	
Local Standard Operating Procedures (SOP)		
MAGTF Command and Control	MCWP 3-40.1	
Management of Marine Corps Formal Schools and Training Detachments	MCO 1553.2_	
Marine Corps Engineer and Utilities Training and Readiness Manual	NAVMC 3500.12_	
Operational Risk Management (ORM)	MCO 3500.27_	
Systems Approach to Training (SAT) Users Guide	NAVMC 1553.1_	



Date: 20150604

ENGINEER OPERATIONS CHIEF
Concept Card Report

ANNEX D - Staff Functions

LESSON ID: C-04D02X

HOURS: 2.00

TYPE: Exam

CATEGORY: Training

TITLE: EXECUTE THE DUTIES OF AN ENGINEER OPERATION CHIEF EXAM

PHASE:

GROUP

Unit Training Management

NAVMC 1553.3_

Unit Training Management Guide

MCRP 3-0A



Date: 20150604

ENGINEER OPERATIONS CHIEF
Concept Card Report

ANNEX Z - Administrative

LESSON ID: Z001

HOURS: 2.00

TYPE: Administrative

CATEGORY: Training

TITLE: ORIENTATION

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
ADMIN	2.00	12 : 1

MEDIA: CPU, PPT, SH, SMB, SO

NOTE(S):

Students will be briefed by staff on all aspects of training. Courseware and additional correspondence/guidance will be given for the conduct of training and off duty time.

ORM Statement: There are no hazards associated with this event.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Management of Marine Corps Formal Schools and Training Detachments	MCO 1553.2_	
School Academic SOP	SCOLO 1500.5_	



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX Z - Administrative

LESSON ID: Z002

HOURS: 26.00

TYPE: Administrative

CATEGORY: Training

TITLE: PHYSICAL TRAINING/PERSONAL HYGIENE

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
PH	13.00	12 : 1
PT	13.00	12 : 1

MEDIA: N/A

NOTE(S):

Time allotted in concurrence with MCO 6100.13 Physical Fitness Program and MCO 1553.2B Management of Marine Corps Formal Schools.

ORM Statement: Initial RAC = 4, Residual Rac = 5

REFERENCE - TITLE

PUBLICATION ID

CHAPTER/PAGE

Physical Fitness

SCOLO 6100.2_

School Academic SOP

SCOLO 1500.5_



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX Z - Administrative

LESSON ID: Z003

HOURS: 1.00

TYPE: Administrative

CATEGORY: Training

TITLE: END OF COURSE CRITIQUE

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
ECC	1.00	12 : 1

MEDIA: HO

NOTE(S):

In accordance with MCO1553.2_ and school academic SOP.

ORM Statement: There are no hazards associated with this event.

<u>REFERENCE - TITLE</u>	<u>PUBLICATION ID</u>	<u>CHAPTER/PAGE</u>
Management of Marine Corps Formal Schools and Training Detachments	MCO 1553.2_	
School Academic SOP	SCOLO 1500.5_	



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX Z - Administrative

LESSON ID: Z004

HOURS: 2.00

TYPE: Administrative

CATEGORY: Training

TITLE: CHECKOUT

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
CHK OUT	2.00	12 : 1

MEDIA: HO

NOTE(S):

Time allotted for students to check out with supporting establishments such as Medical, Dental, Admin, etc.

ORM Statement: There are no hazards associated with this event.

REFERENCE - TITLE

PUBLICATION ID

CHAPTER/PAGE

School Academic SOP

SCOLO 1500.5_



Date: 20150604

ENGINEER OPERATIONS CHIEF

Concept Card Report

ANNEX Z - Administrative

LESSON ID: Z005

HOURS: 1.00

TYPE: Administrative

CATEGORY: Training

TITLE: GRADUATION

PHASE:

GROUP

METHOD	HOURS	S:I RATIO
GRAD	1.00	12 : 1

MEDIA: GC

NOTE(S):

Formal graduation for students to receive certificates of completion from Company Commander of Combat Engineer Instruction Company.

ORM Statement: There are no hazards associated with this event.

REFERENCE - TITLE

PUBLICATION ID

CHAPTER/PAGE

School Academic SOP

SCOLO 1500.5_

