

Course: 413-12T10

Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

Preparation Date: 22 Jul 2010

Status: Commandant Approved

Optimum Class Size: 24

Program of Instruction Cover Page

Total Computed Academic Hours: 254.2

Fiscal Year: 2014

Fiscal Year Quarter: 1

Status Change Date: 22 Jul 2010

Approval Date:

Approval Authority: BRYAN G. WATSON
Brigadier General, USA
Commandant

MACOM Validation Date:

Manpower Validation Date:

Course Supersession Information: This POI supersedes POI 413-21T10, Version 002, dated 01 May 2009.

Phase Supersession Information: This POI supersedes POI 413-21T10, Phase 1, Version 002, dated 01 May 2009.

Foreign Disclosure: FD1. The materials contained in this course have been reviewed by the course developers in coordination with the Fort Leonard Wood, MO/MSCoE foreign disclosure authority. This course is releasable to students from all requesting foreign countries without restrictions.

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Preface Page

Fiscal Year: 2014

Fiscal Year Quarter: 1

Status: Commandant Approved

Status Change Date: 22 Jul 2010

Training Location(s): (052) Engineer School

Specialty: E12T10 Technical Engineer

Supporting ITP: 12T Technical Engineer

TATS-Course: Yes

Purpose: Provides training for Army, Air Force, Navy, and Marine Corps personnel with novice level knowledge of construction surveying and drafting; Army and Navy personnel with knowledge of materials quality testing; Army personnel with knowledge of geodetic surveying.

Course Scope: The 12T10 Technical Engineer Course is comprised of four phases encompassing five modules of MOS related training conducted at Fort Leonard Wood, MO. Phase 1 contains two modules; Drafting and Surveying. Phase 2 contains one module; Surveying. Phase 3 contains one module; Materials Testing. Phase 4 contains two modules; Geodetic and Airfield Surveying, and a Field Training Exercise (FTX).

- o PHASE 1: 160.0 academic hours of Computer Aided Drafting (CAD) that includes architectural graphics, architectural/utility drawings, civil drawings, and drawing production/reproduction; 94.2 hours of construction surveying that consists of differential leveling and establishing project control.
- o PHASE 2: 137.8 academic hours of construction surveying that includes construction site data collection, construction support surveying, and road, building, and utility stakeout using both optical and Global Positioning System (GPS) survey systems.
- o PHASE 2: 160.0 academic hours of soils and concrete testing that includes fresh and hardened concrete testing, laboratory soils testing, and field soils testing used for site evaluation, design, construction, and quality control/assurance of military construction operations.
- o PHASE 3: 96.0 academic hours of geodetic surveying that includes the use of geodetic survey software, airfield/heliport and navigational aid (NavAid) surveys, and installation and recovery of permanent survey control stations. A 72 hour Field Training Exercise (FTX) will be conducted to culminate all training received.

Phase Scope: Army, Navy, Air Force, and Marine Corps personnel will attend training in this phase. Module A consists of training in Computer Aided Drafting (CAD) to include: architectural, utility, and civil drawings, drawing production/reproduction, and application of A/E/C CADD Standard. Module B consists of training in construction surveying; that consists of differential leveling and establishing project control.

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Phase Remarks: Army, Navy, Air Force, and Marine Corps personnel attend this module. The In-Processing time in this module is for Army personnel only.

MRAD Remarks:

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Version: 1 **Delivery Group:** A **Phase:** 1
Preparation Date: 22 Jul 2010
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Course Summary

Academic Time:

Module: A / 1	160.0
Title: Drafting	
Module: B / 1	94.2
Title: Surveying	

Total:	254.2

Administrative Time:

Commandant Time	1.8
In-Processing	8.0

Total:	9.8

Grand Total: 264.0

Academic Hours by Security Classification:

Unclassified	254.2

Total:	254.2

Course: 413-12T10

Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

Preparation Date: 22 Jul 2010

Status: Commandant Approved

Optimum Class Size: 24

Standard: Prepare preliminary drafting sketches depicting complete representation of a building, proportionally drawn with all required dimensions to properly locate all interior walls, exterior walls, door openings, and window openings.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A03 / 1	(GP) Large Group Instruction		
	Introduction:	0.1	(CO) Conference / Discussion
		2.6	(TE) Test
		0.4	(TR) Test Review
	Summary:	0.1	(CO) Conference / Discussion
	Total:	3.2	

Security Clearance: Unclassified

Lesson Title: Prepare Preliminary Drafting Sketches Exam

Action Text: Prepare Preliminary Drafting Sketches Exam

Condition: In a classroom environment, given: a drafting scale, drafting triangles, pencil, eraser, graph paper, tape, and student guide with prepared drafting sketches.

Standard: Prepare preliminary drafting sketches depicting complete representation of a building, proportionally drawn with all required dimensions to properly locate all interior walls, exterior walls, door openings, and window openings. Sketch will be completed within 2 hours and 30 minutes.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A04 / 1	(GP) Large Group Instruction		
	Introduction:	0.1	(CO) Conference / Discussion
		9.2	(CO) Conference / Discussion
		41.0	(DM) Demonstration
		29.5	(PE) Practical Exercise (Performance)
	Summary:	0.1	(CO) Conference / Discussion
	Total:	79.9	

Security Clearance: Unclassified

Lesson Title: Prepare Floor Plan and Foundation Plan Drawings

Action Text: Prepare Floor Plan and Foundation Plan Drawings

Condition: In a classroom environment, given: a computer with AutoCAD, and student guide with prepared floor plan and foundation plan drawings.

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Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

Preparation Date: 22 Jul 2010

Status: Commandant Approved

Optimum Class Size: 24

Standard: Prepare a floor plan and a foundation plan drawing accurate to within $\pm 1/16$ of an inch, with correct graphics and accurate dimensions in accordance with provided sketches and specifications.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A05 / 1	(GP) Large Group Instruction		
	Introduction:	0.1	(CO) Conference / Discussion
		3.6	(TE) Test
		0.4	(TR) Test Review
	Summary:	0.1	(CO) Conference / Discussion
	Total:	4.2	

Security Clearance: Unclassified

Lesson Title: Prepare Floor Plan and Foundation Plan Drawings Exam

Action Text: Prepare Floor Plan and Foundation Plan Drawings Exam

Condition: In a classroom environment, given: a computer with AutoCAD, and student guide with prepared floor plan and foundation plan drawings, and exam booklet.

Standard: Prepare a floor plan and a foundation plan drawing accurate to within $\pm 1/16$ of an inch, with correct graphics and accurate dimensions in accordance with sketches and specifications provided in the exam booklet and completed within 3 hours and 30 minutes.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A06 / 1	(GP) Large Group Instruction		
	Introduction:	0.1	(CO) Conference / Discussion
		3.0	(CO) Conference / Discussion
		8.1	(DM) Demonstration
		17.2	(PE) Practical Exercise (Performance)
	Summary:	0.1	(CO) Conference / Discussion
	Total:	28.5	

Security Clearance: Unclassified

Lesson Title: Prepare a Utility Plan/Drawing

Action Text: Prepare a Utility Plan/Drawing

Condition: In a classroom environment, given: a computer with AutoCAD, and student guide with prepared utility drawings.

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Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

Preparation Date: 22 Jul 2010

Status: Commandant Approved

Optimum Class Size: 24

Standard: Prepare a utility plan/drawing showing all fixtures, connections, and schedules, with symbols in accordance with sketches, designs, and specifications. Drawing will be accurate to $\pm 1/16$ of an inch.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A07 / 1	(GP) Large Group Instruction		
	Introduction:	0.1	(CO) Conference / Discussion
		2.6	(TE) Test
		0.4	(TR) Test Review
	Summary:	0.1	(CO) Conference / Discussion
	Total:	3.2	

Security Clearance: Unclassified

Lesson Title: Prepare a Utility Plan/Drawing Exam

Action Text: Prepare a Utility Plan/Drawing Exam

Condition: In a classroom environment, given: a computer with AutoCAD, student guide with prepared utility drawings, and exam booklet.

Standard: Prepare a utility plan/drawing showing all fixtures, connections, and schedules, with symbols in accordance with sketches, designs, and specifications provided in exam booklet. Drawing will be accurate to $\pm 1/16$ of an inch and completed within 2 hours and 30 minutes.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A08 / 1	(GP) Large Group Instruction		
	Introduction:	0.1	(CO) Conference / Discussion
		1.0	(CO) Conference / Discussion
		9.5	(DM) Demonstration
		17.2	(PE) Practical Exercise (Performance)
	Summary:	0.1	(CO) Conference / Discussion
	Total:	27.9	

Security Clearance: Unclassified

Lesson Title: Prepare Architectural Drawings

Action Text: Prepare Architectural Drawings

Condition: In a classroom environment, given: a computer with AutoCAD, a printer/plotter with paper, and student guide with prepared architectural drawings.

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Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

Preparation Date: 22 Jul 2010

Status: Commandant Approved

Optimum Class Size: 24

Standard: Prepare architectural drawings consisting of a building elevation, a sectional drawing, and a detail drawing. Drawings will be accurate to within $\pm 1/16$ of an inch in accordance with sketches and specifications provided in the student guide.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A09 / 1	(GP) Large Group Instruction		
	Introduction:	0.1	(CO) Conference / Discussion
		4.6	(TE) Test
		0.3	(TR) Test Review
	Summary:	0.1	(CO) Conference / Discussion
	Total:	5.1	

Security Clearance: Unclassified

Lesson Title: Prepare Architectural Drawings Exam

Action Text: Prepare Architectural Drawings Exam

Condition: In a classroom environment, given: a computer with AutoCAD, printer/plotter with paper, student guide with prepared architectural drawings, and exam booklet.

Standard: Prepare architectural drawings consisting of a building elevation, a sectional drawing, and a detail drawing. Drawings will be accurate to within $\pm 1/16$ of an inch in accordance with sketches and specifications provided in the exam booklet and completed within 4 hours and 30 minutes.

Remarks:

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1
Preparation Date: 22 Jul 2010
Optimum Class Size: 24

Module: B / 1

Title: Surveying

Purpose: Provides training in construction surveying that consists of differential leveling and establishing project control.

Remarks: Army, Navy, Air Force, and Marine Corps personnel attend training in this module.

Technique(s) of Delivery:	Hours
Large Group Instruction (GP)	96.0
Total Hours (Admin & Academic)	96.0

Lesson Id / Version	Technique of Delivery	Hours	Method of Instruction
12T10B01 / 1	(GP) Large Group Instruction		
	Introduction:	0.1	(CO) Conference / Discussion
		6.0	(CO) Conference / Discussion
		2.0	(DM) Demonstration
		1.6	(P1) Practical Exercise (Hands-on)
		7.8	(P3) Practical Exercise (Written)
		14.4	(PE) Practical Exercise (Performance)
	Summary:	0.1	(CO) Conference / Discussion
	Total:	32.0	

Security Clearance: Unclassified

Lesson Title: Establish Vertical Control

Action Text: Establish Vertical Control

Condition: In a field environment, given: three team members, an auto level, tripod, two Philadelphia rods, two rod levels, two marking stakes, a hammer, a calculator, recording forms, and a pencil.

Standard: Establish vertical control for a proposed construction project to within ± 0.10 feet times the square root of the distance in miles.

Remarks:

Lesson Id / Version	Technique of Delivery	Hours	Method of Instruction
12T10B02 / 1	(GP) Large Group Instruction		
	Introduction:	0.1	(CO) Conference / Discussion
		1.3	(TE) Test
		0.2	(TR) Test Review
	Summary:	0.1	(CO) Conference / Discussion
	Total:	1.7	

Course: 413-12T10

Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

Preparation Date: 22 Jul 2010

Status: Commandant Approved

Optimum Class Size: 24

Security Clearance: Unclassified

Lesson Title: Establish Vertical Control Exam

Action Text: Establish Vertical Control Exam

Condition: In a field environment, given: an exam booklet, answer sheet, pencil, and a calculator.

Standard: Establish vertical control by achieving a minimum of 70% on the written exam within 1 hour and 15 minutes.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10B03 / 1	(GP) Large Group Instruction		
	Introduction:	0.1	(CO) Conference / Discussion
		4.6	(CO) Conference / Discussion
		7.6	(DM) Demonstration
		43.7	(PE) Practical Exercise (Performance)
	Summary:	0.1	(CO) Conference / Discussion
	Total:	56.1	

Security Clearance: Unclassified

Lesson Title: Establish Project Control

Action Text: Establish Project Control

Condition: In a field/classroom environment, given: an Automated Integrated Survey Instrument (AIS) with accessories, a tripod, R8 GPS Survey System, FM 5-233, pencil, calculator, and a computer loaded with Terramodel and Trimble Business Center software.

Standard: Establish project control by performing a traverse survey consisting of setting up, leveling, and traversing at least 3 points with a linear error of closure of 1:5,000 or better and an average angular error of closure of 10 seconds per station or less and determine actual coordinates of points using GPS system.

Remarks: The following software will need to be downloaded prior to the instruction of this lesson.
Trimble Data Transfer: <http://www.trimble.com/datatransfer.shtml>, Rinex:
http://www.trimble.com/trimblerinex_ts.asp.

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10B04 / 1	(GP) Large Group Instruction		
	Introduction:	0.1	(CO) Conference / Discussion
		3.6	(TE) Test
		0.6	(TR) Test Review
	Summary:	0.1	(CO) Conference / Discussion
	Total:	4.4	

Course: 413-12T10

Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

Preparation Date: 22 Jul 2010

Status: Commandant Approved

Optimum Class Size: 24

Security Clearance: Unclassified

Lesson Title: Establish Project Control Exam

Action Text: Establish Project Control Exam

Condition: In a field/classroom environment, given: an Automated Integrated Survey Instrument (AIS) with accessories, tripod, R8 GPS Survey System, pencil, and a computer loaded with Terramodel and Trimble Business Center software.

Standard: Establish project control by performing a traverse survey consisting of setting up, leveling, and traversing at least 3 points with a linear error of closure of 1:5,000 or better and an average angular error of closure of 10 seconds per station or less and determine actual coordinates of points using GPS system within 3 hours and 30 minutes.

Remarks: The following software will need to be downloaded prior to the instruction of this lesson.
Trimble Data Transfer: <http://www.trimble.com/datatransfer.shtml>, Rinex:
http://www.trimble.com/trimblerinex_ts.asp.

Course: 413-12T10

Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

Preparation Date: 22 Jul 2010

Status: Commandant Approved

Optimum Class Size: 24

Mandatory Training Module

None.

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1
Preparation Date: 22 Jul 2010
Optimum Class Size: 24

Examination Module

Module: A / 1

Title: Drafting

Purpose: Provides training in Computer Aided Drafting (CAD) that includes architectural graphics, architectural/utility drawings, civil drawings, and drawing production/reproduction.

Remarks: Army, Navy, Air Force, and Marine Corps personnel attend training in this module.

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A03 / 1	(GP) Large Group Instruction	2.6	(TE) Test
Total:		2.6	

Security Clearance for Exam/Test: Unclassified

Lesson Title: Prepare Preliminary Drafting Sketches Exam

Action Text: Prepare Preliminary Drafting Sketches Exam

Condition: In a classroom environment, given: a drafting scale, drafting triangles, pencil, eraser, graph paper, tape, and student guide with prepared drafting sketches.

Standard: Prepare preliminary drafting sketches depicting complete representation of a building, proportionally drawn with all required dimensions to properly locate all interior walls, exterior walls, door openings, and window openings. Sketch will be completed within 2 hours and 30 minutes.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A05 / 1	(GP) Large Group Instruction	3.6	(TE) Test
Total:		3.6	

Security Clearance for Exam/Test: Unclassified

Lesson Title: Prepare Floor Plan and Foundation Plan Drawings Exam

Action Text: Prepare Floor Plan and Foundation Plan Drawings Exam

Condition: In a classroom environment, given: a computer with AutoCAD, and student guide with prepared floor plan and foundation plan drawings, and exam booklet.

Standard: Prepare a floor plan and a foundation plan drawing accurate to within $\pm 1/16$ of an inch, with correct graphics and accurate dimensions in accordance with sketches and specifications provided in the exam booklet and completed within 3 hours and 30 minutes.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A07 / 1	(GP) Large Group Instruction	2.6	(TE) Test

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Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

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<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A07 / 1	(GP) Large Group Instruction		
		Total:	2.6

Security Clearance for Exam/Test: Unclassified

Lesson Title: Prepare a Utility Plan/Drawing Exam

Action Text: Prepare a Utility Plan/Drawing Exam

Condition: In a classroom environment, given: a computer with AutoCAD, student guide with prepared utility drawings, and exam booklet.

Standard: Prepare a utility plan/drawing showing all fixtures, connections, and schedules, with symbols in accordance with sketches, designs, and specifications provided in exam booklet. Drawing will be accurate to $\pm 1/16$ of an inch and completed within 2 hours and 30 minutes.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10A09 / 1	(GP) Large Group Instruction		
		4.6	(TE) Test
		Total:	4.6

Security Clearance for Exam/Test: Unclassified

Lesson Title: Prepare Architectural Drawings Exam

Action Text: Prepare Architectural Drawings Exam

Condition: In a classroom environment, given: a computer with AutoCAD, printer/plotter with paper, student guide with prepared architectural drawings, and exam booklet.

Standard: Prepare architectural drawings consisting of a building elevation, a sectional drawing, and a detail drawing. Drawings will be accurate to within $\pm 1/16$ of an inch in accordance with sketches and specifications provided in the exam booklet and completed within 4 hours and 30 minutes.

Remarks:

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1
Preparation Date: 22 Jul 2010
Optimum Class Size: 24

Module: B / 1

Title: Surveying

Purpose: Provides training in construction surveying that consists of differential leveling and establishing project control.

Remarks: Army, Navy, Air Force, and Marine Corps personnel attend training in this module.

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10B02 / 1	(GP) Large Group Instruction	1.3	(TE) Test
		<u>1.3</u>	
		Total: 1.3	

Security Clearance for Exam/Test: Unclassified

Lesson Title: Establish Vertical Control Exam

Action Text: Establish Vertical Control Exam

Condition: In a field environment, given: an exam booklet, answer sheet, pencil, and a calculator.

Standard: Establish vertical control by achieving a minimum of 70% on the written exam within 1 hour and 15 minutes.

Remarks:

<u>Lesson Id / Version</u>	<u>Technique of Delivery</u>	<u>Hours</u>	<u>Method of Instruction</u>
12T10B04 / 1	(GP) Large Group Instruction	3.6	(TE) Test
		<u>3.6</u>	
		Total: 3.6	

Security Clearance for Exam/Test: Unclassified

Lesson Title: Establish Project Control Exam

Action Text: Establish Project Control Exam

Condition: In a field/classroom environment, given: an Automated Integrated Survey Instrument (AIS) with accessories, tripod, R8 GPS Survey System, pencil, and a computer loaded with Terramodel and Trimble Business Center software.

Standard: Establish project control by performing a traverse survey consisting of setting up, leveling, and traversing at least 3 points with a linear error of closure of 1:5,000 or better and an average angular error of closure of 10 seconds per station or less and determine actual coordinates of points using GPS system within 3 hours and 30 minutes.

Remarks: The following software will need to be downloaded prior to the instruction of this lesson.
Trimble Data Transfer: <http://www.trimble.com/datatransfer.shtml>, Rinex:
http://www.trimble.com/trimblerinex_ts.asp.

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Delivery Group: A Phase: 1

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Individual Task Summary - Lessons

<u>Task</u>	<u>Title</u>	<u>Lesson / Ver</u>	<u>Critical Task</u>
052-243-1235	Prepare a Floor Plan Drawing	12T10A04 / 1	Yes
052-243-1236	Prepare a Foundation Drawing	12T10A04 / 1	Yes
052-243-1237	Prepare a Building Elevation Drawing	12T10A08 / 1	Yes
052-243-1239	Prepare a Sectional-View Drawing	12T10A08 / 1	Yes
052-243-1240	Prepare a Detail Drawing	12T10A08 / 1	Yes
052-243-1241	Prepare a Utility Plan/Drawing	12T10A06 / 1	Yes
052-243-1248	Perform a Traverse Survey	12T10B03 / 1	Yes
052-243-1303	Perform Differential Leveling	12T10B01 / 1	Yes
052-243-1512	Establish Temporary Control Points	12T10B03 / 1	Yes
052-243-1532	Prepare Preliminary Drafting Sketches	12T10A02 / 1	Yes
052-243-1539	Perform Static Survey with Differential Global Positioning System (DGPS)	12T10B03 / 1	Yes
052-243-1543	Set Up a Target Set	12T10B03 / 1	Yes
052-243-1544	Perform as a Rodman	12T10B01 / 1	Yes
052-243-1545	Perform Operator Maintenance on Survey Equipment	12T10B03 / 1	Yes
052-243-1546	Operate the Automated Integrated Surveying Instrument (AIS)	12T10B03 / 1	Yes
052-243-1548	Record Level Data	12T10B01 / 1	Yes
052-243-1549	Check Field Notes and Abstracts for Errors	12T10B01 / 1	Yes
052-243-1553	Check Level Data	12T10B01 / 1	Yes
052-243-1554	Download Data from the Differential Global Positioning System (DGPS) Receiver	12T10B03 / 1	Yes
052-243-1555	Process Differential Global Positioning System (DGPS) Data	12T10B03 / 1	Yes

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Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

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Collective Task Summary - Lessons

None.

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Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

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Ammunition Summary - Lesson

None

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 Course Name: Technical Engineer
 Management Category: Resident
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Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
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Facilities Summary - Lessons

Facility Id: 17136-2800

Unit of Measure: Square Feet

Nomenclature: AUTO-AID INST, 2800 SF (Classroom XXI)

<u>Lesson / Version</u>	<u>Step</u>	<u>Facility Quantity</u>	<u>Student Ratio</u>	<u>Setup Hours</u>	<u>Cleanup Hours</u>	<u>Instruction Hours</u>	<u>Facility Hours</u>
12T10A02 / 1	TLO	1	1:24	0.0	0.0	7.8	7.8
Lesson Total:				0.0	0.0	7.8	7.8
12T10A03 / 1	TLO	1	1:24	0.0	0.0	3.0	3.0
Lesson Total:				0.0	0.0	3.0	3.0
12T10A04 / 1	TLO	1	1:24	0.0	0.0	79.7	79.7
Lesson Total:				0.0	0.0	79.7	79.7
12T10A05 / 1	TLO	1	1:24	0.0	0.0	4.0	4.0
Lesson Total:				0.0	0.0	4.0	4.0
12T10A06 / 1	TLO	1	1:24	0.0	0.0	28.3	28.3
Lesson Total:				0.0	0.0	28.3	28.3
12T10A07 / 1	TLO	1	1:24	0.0	0.0	3.0	3.0
Lesson Total:				0.0	0.0	3.0	3.0
12T10A08 / 1	TLO	1	1:24	0.0	0.0	27.7	27.7
Lesson Total:				0.0	0.0	27.7	27.7
12T10A09 / 1	TLO	1	1:24	0.0	0.0	4.9	4.9
Lesson Total:				0.0	0.0	4.9	4.9
12T10B01 / 1	TLO	1	1:24	0.0	0.0	31.8	31.8
Lesson Total:				0.0	0.0	31.8	31.8
12T10B02 / 1	TLO	1	1:24	0.0	0.0	1.5	1.5
Lesson Total:				0.0	0.0	1.5	1.5
12T10B03 / 1	TLO	1	1:24	0.0	0.0	55.9	55.9
Lesson Total:				0.0	0.0	55.9	55.9
12T10B04 / 1	TLO	1	1:24	0.0	0.0	6.0	6.0
Lesson Total:				0.0	0.0	6.0	6.0
Facility Total:				0.0	0.0	253.6	253.6

Facility Id: 17139-4000

Unit of Measure: Square Feet

Nomenclature: COV TRAIN AREA, 4000 SF

<u>Lesson / Version</u>	<u>Step</u>	<u>Facility Quantity</u>	<u>Student Ratio</u>	<u>Setup Hours</u>	<u>Cleanup Hours</u>	<u>Instruction Hours</u>	<u>Facility Hours</u>
12T10B01 / 1	TLO	1	1:24	0.0	0.0	31.8	31.8
Lesson Total:				0.0	0.0	31.8	31.8
12T10B03 / 1	TLO	1	1:24	0.0	0.0	55.9	55.9
Lesson Total:				0.0	0.0	55.9	55.9
12T10B04 / 1	TLO	1	1:24	0.0	0.0	6.0	6.0

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1

Preparation Date: 22 Jul 2010
Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Facility Quantity</u>	<u>Student Ratio</u>	<u>Setup Hours</u>	<u>Cleanup Hours</u>	<u>Instruction Hours</u>	<u>Facility Hours</u>
Lesson Total:				0.0	0.0	6.0	6.0
Facility Total:				0.0	0.0	93.7	93.7

Facility Id: 17710-20

Unit of Measure: Acres

Nomenclature: MAN/TRN AREA LT, 20 AC

<u>Lesson / Version</u>	<u>Step</u>	<u>Facility Quantity</u>	<u>Student Ratio</u>	<u>Setup Hours</u>	<u>Cleanup Hours</u>	<u>Instruction Hours</u>	<u>Facility Hours</u>
12T10B01 / 1	TLO	1	1:24	0.0	0.0	31.8	31.8
Lesson Total:				0.0	0.0	31.8	31.8
12T10B03 / 1	TLO	1	1:24	0.0	0.0	55.9	55.9
Lesson Total:				0.0	0.0	55.9	55.9
12T10B04 / 1	TLO	1	1:24	0.0	0.0	6.0	6.0
Lesson Total:				0.0	0.0	6.0	6.0
Facility Total:				0.0	0.0	93.7	93.7

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

Equipment Summary - Lessons

Expendable:

NSN (LIN): 6675-00-190-5862 Triangle, Drafting, 45D

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Total</u>	<u>OPTEMPO Miles Hours</u>	
12T10A02 / 1	TLO	1:1	24	3	0	27	0.0	0.0
Lesson Total:			24	3	0	27	0.0	0.0
12T10A03 / 1	TLO	1:1	24	2	0	26	0.0	0.0
Lesson Total:			24	2	0	26	0.0	0.0
NSN (LIN) Total:			48	5	0	53	0.0	0.0

NSN (LIN): 6675-00-190-5866 Triangle, Drafting

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Total</u>	<u>OPTEMPO Miles Hours</u>	
12T10A02 / 1	TLO	1:1	24	3	0	27	0.0	0.0
Lesson Total:			24	3	0	27	0.0	0.0
12T10A03 / 1	TLO	1:1	24	2	0	26	0.0	0.0
Lesson Total:			24	2	0	26	0.0	0.0
NSN (LIN) Total:			48	5	0	53	0.0	0.0

NSN (LIN): 6675-00-238-3498 Scale, Drafting

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Total</u>	<u>OPTEMPO Miles Hours</u>	
12T10A02 / 1	TLO	1:1	24	3	0	27	0.0	0.0
Lesson Total:			24	3	0	27	0.0	0.0
12T10A03 / 1	TLO	1:1	24	2	0	26	0.0	0.0
Lesson Total:			24	2	0	26	0.0	0.0
NSN (LIN) Total:			48	5	0	53	0.0	0.0

NSN (LIN): 6675-00-252-1079 Rod, Level

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Total</u>	<u>OPTEMPO Miles Hours</u>	
12T10B01 / 1	TLO	1:1	24	0	2	26	0.0	0.0
Lesson Total:			24	0	2	26	0.0	0.0
NSN (LIN) Total:			24	0	2	26	0.0	0.0

NSN (LIN): 6675-00-641-5713 Rod, Level, Philadelphia

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Total</u>	<u>OPTEMPO Miles Hours</u>	
12T10B01 / 1	TLO	1:1	24	0	2	26	0.0	0.0
Lesson Total:			24	0	2	26	0.0	0.0
NSN (LIN) Total:			24	0	2	26	0.0	0.0

NSN (LIN): 7420-01-182-8535 Calculator, Electronic, Scientific

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Total</u>	<u>OPTEMPO Miles Hours</u>	
12T10B01 / 1	TLO	1:1	24	4	5	33	0.0	0.0
Lesson Total:			24	4	5	33	0.0	0.0
12T10B02 / 1	TLO	1:1	24	1	5	30	0.0	0.0
Lesson Total:			24	1	5	30	0.0	0.0
12T10B03 / 1	TLO	1:1	24	4	5	33	0.0	0.0
Lesson Total:			24	4	5	33	0.0	0.0
12T10B04 / 1	TLO	1:1	24	4	5	33	0.0	0.0
Lesson Total:			24	4	5	33	0.0	0.0
NSN (LIN) Total:			96	13	20	129	0.0	0.0

NSN (LIN): 7510-00-223-7046 Eraser, Rubber

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Total</u>	<u>OPTEMPO Miles Hours</u>	
12T10A02 / 1	TLO		0	0	3	3	0.0	0.0
Lesson Total:			0	0	3	3	0.0	0.0
12T10A03 / 1	TLO		0	0	3	3	0.0	0.0
Lesson Total:			0	0	3	3	0.0	0.0
NSN (LIN) Total:			0	0	6	6	0.0	0.0

NSN (LIN): 7510-00-551-9824 Tape, Pressure Sensitive Adhesive (3/4 inches x 72 yards)

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Total</u>	<u>OPTEMPO Miles Hours</u>	
12T10A02 / 1	TLO	1:12	2	0	0	2	0.0	0.0
Lesson Total:			2	0	0	2	0.0	0.0
12T10A03 / 1	TLO	1:12	2	0	0	2	0.0	0.0
Lesson Total:			2	0	0	2	0.0	0.0
NSN (LIN) Total:			4	0	0	4	0.0	0.0

NSN (LIN): 7520-01-132-4996 Pencil, Mechanical

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Total</u>	<u>OPTEMPO Miles Hours</u>	
12T10A02 / 1	TLO		0	0	3	3	0.0	0.0
Lesson Total:			0	0	3	3	0.0	0.0
12T10A03 / 1	TLO		0	0	3	3	0.0	0.0
Lesson Total:			0	0	3	3	0.0	0.0
12T10B01 / 1	TLO		0	0	3	3	0.0	0.0
Lesson Total:			0	0	3	3	0.0	0.0
12T10B02 / 1	TLO		0	0	3	3	0.0	0.0
Lesson Total:			0	0	3	3	0.0	0.0
12T10B03 / 1	TLO		0	0	3	3	0.0	0.0
Lesson Total:			0	0	3	3	0.0	0.0
12T10B04 / 1	TLO		0	0	3	3	0.0	0.0
Lesson Total:			0	0	3	3	0.0	0.0
NSN (LIN) Total:			0	0	18	18	0.0	0.0

NSN (LIN): 7530-00-558-1153 Paper, Graph

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Total</u>	<u>OPTEMPO Miles Hours</u>	
12T10A02 / 1	TLO		0	0	15	15	0.0	0.0
Lesson Total:			0	0	15	15	0.0	0.0
12T10A03 / 1	TLO		0	0	5	5	0.0	0.0
Lesson Total:			0	0	5	5	0.0	0.0
NSN (LIN) Total:			0	0	20	20	0.0	0.0

NSN (LIN): 7530-01-335-2623 Paper, Copying, Xerographic Process (Copier Paper)

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Total</u>	<u>OPTEMPO Miles Hours</u>	
12T10A08 / 1	TLO		0	0	3	3	0.0	0.0
Lesson Total:			0	0	3	3	0.0	0.0
NSN (LIN) Total:			0	0	3	3	0.0	0.0

Non-Expendable:

NSN (LIN): 5120-00-224-4141 Hammer, Hand, 4 lb

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10B01 / 1	TLO	1:2	12	0	0	12	0.0	0.0
Lesson Max:			12	0	0	12	0.0	0.0
NSN (LIN) Max:			12	0	0	12	0.0	0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

NSN (LIN): 6675-00-641-3572 (X31755) Tripod, Surveying 64 inches

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10B01 / 1	TLO	1:4	6	0	2	8	0.0	16.0
Lesson Max:			6	0	2	8	0.0	16.0
12T10B03 / 1	TLO	1:1	24	0	2	26	0.0	25.0
Lesson Max:			24	0	2	26	0.0	25.0
12T10B04 / 1	TLO	1:1	24	0	2	26	0.0	3.6
Lesson Max:			24	0	2	26	0.0	3.6
NSN (LIN) Max:			24	0	2	26	0.0	44.6

NSN (LIN): 6675-01-054-5012 Level, Surveying, Self-Leveling

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10B01 / 1	TLO	1:4	6	0	2	8	0.0	0.0
Lesson Max:			6	0	2	8	0.0	0.0
NSN (LIN) Max:			6	0	2	8	0.0	0.0

NSN (LIN): 6675-01-503-3579 (S03726) Surveying Instrument, Electronic

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10B03 / 1	TLO	1:3	8	0	2	10	0.0	25.0
Lesson Max:			8	0	2	10	0.0	25.0
Remarks: TLO Trimble 5601 Set								
12T10B04 / 1	TLO	1:3	8	0	2	10	0.0	3.6
Lesson Max:			8	0	2	10	0.0	3.6
Remarks: TLO Trimble 5601								
NSN (LIN) Max:			8	0	2	10	0.0	28.6

NSN (LIN): 7000-21-000-0041 Terra Model Software (Trimble/Spectra Precision)

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10B03 / 1	TLO		0	0	31	31	0.0	0.0
Lesson Max:			0	0	31	31	0.0	0.0
12T10B04 / 1	TLO		0	0	31	31	0.0	0.0
Lesson Max:			0	0	31	31	0.0	0.0
NSN (LIN) Max:			0	0	31	31	0.0	0.0

NSN (LIN): 7000-21-000-0056 Computer System

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A04 / 1	TLO		0	0	30	30	0.0 0.0
	Lesson Max:		0	0	30	30	0.0 0.0
12T10A05 / 1	TLO		0	0	30	30	0.0 0.0
	Lesson Max:		0	0	30	30	0.0 0.0
12T10A06 / 1	TLO		0	0	30	30	0.0 0.0
	Lesson Max:		0	0	30	30	0.0 0.0
12T10A07 / 1	TLO		0	0	30	30	0.0 0.0
	Lesson Max:		0	0	30	30	0.0 0.0
12T10A08 / 1	TLO		0	0	30	30	0.0 0.0
	Lesson Max:		0	0	30	30	0.0 0.0
12T10A09 / 1	TLO		0	0	30	30	0.0 0.0
	Lesson Max:		0	0	30	30	0.0 0.0
12T10B01 / 1	TLO		0	0	30	30	0.0 0.0
	Lesson Max:		0	0	30	30	0.0 0.0
12T10B03 / 1	TLO		0	0	30	30	0.0 0.0
	Lesson Max:		0	0	30	30	0.0 0.0
12T10B04 / 1	TLO		0	0	30	30	0.0 0.0
	Lesson Max:		0	0	30	30	0.0 0.0
	NSN (LIN) Max:		0	0	30	30	0.0 0.0

NSN (LIN): 7000-21-000-0165 Software, AutoCad

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A04 / 1	TLO		0	0	31	31	0.0 0.0
	Lesson Max:		0	0	31	31	0.0 0.0
12T10A05 / 1	TLO		0	0	31	31	0.0 0.0
	Lesson Max:		0	0	31	31	0.0 0.0
12T10A06 / 1	TLO		0	0	31	31	0.0 0.0
	Lesson Max:		0	0	31	31	0.0 0.0
12T10A07 / 1	TLO		0	0	31	31	0.0 0.0
	Lesson Max:		0	0	31	31	0.0 0.0
12T10A08 / 1	TLO		0	0	31	31	0.0 0.0
	Lesson Max:		0	0	31	31	0.0 0.0
12T10A09 / 1	TLO		0	0	31	31	0.0 0.0
	Lesson Max:		0	0	31	31	0.0 0.0
	NSN (LIN) Max:		0	0	31	31	0.0 0.0

NSN (LIN): 7000-21-000-0328 Stakes, Marker, Red, 10 inches

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10B01 / 1	TLO	1:2	12	0	0	12	0.0	0.0
Lesson Max:			12	0	0	12	0.0	0.0
NSN (LIN) Max:			12	0	0	12	0.0	0.0

NSN (LIN): 7000-21-000-0409

Instructor PC

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10A02 / 1	TLO		0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
12T10A03 / 1	TLO		0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
12T10A04 / 1	TLO		0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
12T10A05 / 1	TLO		0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
12T10A06 / 1	TLO		0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
12T10A07 / 1	TLO		0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
12T10A08 / 1	TLO		0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
12T10A09 / 1	TLO		0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
12T10B01 / 1	TLO	0:0	0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
12T10B02 / 1	TLO		0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
12T10B03 / 1	TLO	0:0	0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
12T10B04 / 1	TLO		0	0	1	1	0.0	0.0
Lesson Max:			0	0	1	1	0.0	0.0
NSN (LIN) Max:			0	0	1	1	0.0	0.0

NSN (LIN): 7025-01-242-7823

Plotter, Computer Aided Drafting

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10A08 / 1	TLO		0	0	3	3	0.0	0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
Lesson Max:			0	0	3	3	0.0	0.0
NSN (LIN) Max:			0	0	3	3	0.0	0.0

NSN (LIN): 7025-01-571-0538 Printer, Automatic Data Processing, Designjet, 2400 x 1200 DPI

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10A08 / 1	TLO		0	0	3	3	0.0	0.0
Lesson Max:			0	0	3	3	0.0	0.0
NSN (LIN) Max:			0	0	3	3	0.0	0.0

NSN (LIN): 7530-01-243-1061 Paper, Plotter

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10A08 / 1	TLO		0	0	5	5	0.0	0.0
Lesson Max:			0	0	5	5	0.0	0.0
NSN (LIN) Max:			0	0	5	5	0.0	0.0

NSN (LIN): R8GNSSRTK-PB10 GPS Survey Grade System, 1 Base/2Rovers 5700 Base Kit, RTK/PP SW, 1 Internal Radio (410-420 MHz)

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10B03 / 1	TLO	1:2	12	4	2	18	0.0	0.0
Lesson Max:			12	4	2	18	0.0	0.0

Remarks: TLO Ordering POC is Trimble, Jack Patton at (937)245-5300

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>	
12T10B04 / 1	TLO	1:2	12	0	2	14	0.0	0.0
Lesson Max:			12	0	2	14	0.0	0.0

Remarks: TLO Ordering POC is Trimble, Jack Patton at (937)245-5300

NSN (LIN) Max:			12	4	2	18	0.0	0.0
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Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

Training Support Equipment - Lessons

Non-Expendable:

NSN (LIN): 7000-21-000-0354 150" Video Screens

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0355 Screen Controller

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO	0:0	0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0356

Crestron Audio / Video Controller

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0357

Power Supply

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO	0:0	0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0358 Crestron Com Card

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO	0:0	0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0359 LCD Projection System

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0360

8x8 RGB Routing Switcher

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0361

Creston Ethernet Card

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0362

Creston Input/Output Card

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
NSN (LIN) Max:			0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0363 Crestron Volume Control Card

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
NSN (LIN) Max:			0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0364 Crestron Relay Card

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0365

Crestron RS-232/IR Control Card

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0366

Crestron Infrared Transmitter

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0367 Ceiling Speaker System

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0368 Crestron Lighting Controller

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0369

Crestron 12" Video Touch Panel

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0385

Projector Mounting System

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0386

Audio Power Amplifier

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
NSN (LIN) Max:			0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0387 Headset Microphone

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
NSN (LIN) Max:			0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0388 Condenser Microphone

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0389

Microphone Base

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0390

Power Conditioner

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0391

8x8 Audio Video Routing Switcher

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0392

VCR / DVD Player

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO	0:0	0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
NSN (LIN) Max:			0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0393

VCR / DVD Control Module

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0394

Wireless Microphone System

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10B01 / 1	TLO	0:0	0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0395 Lavalier Microphone

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
NSN (LIN) Max:			0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0396 Audio Dynamics Processor

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
NSN (LIN) Max:			0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0397 Microphone Mixer

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0398

Audio Routing Mixer

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0399

20 Space Security Door

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0400 2-Space Vented Security Panel

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0401 Document Camera

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0402 Wireless Mouse

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0403

1x2 RGB Distribution Amplifier

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0404

Audio/Video/Control Cable and Assemblies

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
NSN (LIN) Max:			0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0405 Control System Design

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
NSN (LIN) Max:			0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0406 Smart Board Display Monitor

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
Lesson Max:			0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1
 Preparation Date: 22 Jul 2010
 Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0407

Documentation for Installation Schematics

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO	0:0	0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
 Course Name: Technical Engineer
 Management Category: Resident
 Status: Commandant Approved

Version: 1 Delivery Group: A Phase: 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

NSN (LIN): 7000-21-000-0408

Rack

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
12T10A02 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A05 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A06 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A07 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A08 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10A09 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B01 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B02 / 1	TLO		0	0	1	1	0.0 0.0

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

<u>Lesson / Version</u>	<u>Step</u>	<u>Student Ratio</u>	<u>Student Quantity</u>	<u>Instructor Quantity</u>	<u>Other Quantity</u>	<u>Max</u>	<u>OPTEMPO Miles Hours</u>
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B03 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
12T10B04 / 1	TLO		0	0	1	1	0.0 0.0
	Lesson Max:		0	0	1	1	0.0 0.0
	NSN (LIN) Max:		0	0	1	1	0.0 0.0

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1
Preparation Date: 22 Jul 2010
Optimum Class Size: 24

Support Personnel Summary - Lesson

Support Personnel Title: Assistant Instructor

Support Personnel Classification: Enlisted

School: (052) Engineer School

<u>Lesson / Version</u>	<u>Student Quantity</u>	<u>Support Personnel Quantity</u>	<u>Man Hours</u>
12T10A02 / 1	0	2	2.5
12T10A03 / 1	0	1	2.6
12T10A04 / 1	0	2	70.5
12T10A05 / 1	0	1	3.6
12T10A06 / 1	0	2	25.3
12T10A07 / 1	0	1	2.6
12T10A08 / 1	0	2	26.2
12T10A09 / 1	0	1	4.6
12T10B01 / 1	0	3	25.8
12T10B03 / 1	0	3	46.7
12T10B04 / 1	0	3	3.6
Totals	0	21	214.0

Course: 413-12T10

Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

Preparation Date: 22 Jul 2010

Status: Commandant Approved

Optimum Class Size: 24

TADSS Summary - Lessons

None.

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1
Preparation Date: 22 Jul 2010
Optimum Class Size: 24

MRAD Headquarters Validation

Module: A / 1

Lesson: 12T10A01 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.0	1:24	0.0
Summary	Conference / Discussion	0.0	1:24	0.0
		Lesson Subtotal:	0.0	0.0
		MRAD Subtotal:	0.0	0.0

Module: A / 1

Lesson: 12T10A02 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
ELO A (1)	Conference / Discussion	0.9	1:24	0.9
ELO A (2)	Conference / Discussion	2.5	1:24	2.5
ELO A (3)	Conference / Discussion	1.9	1:24	1.9
ELO A (4)	Practical Exercise (Performance)	2.5	1:8	7.5
Summary	Conference / Discussion	0.1	1:24	0.1
		Lesson Subtotal:	8.0	13.0
		MRAD Subtotal:	8.0	13.0

Module: A / 1

Lesson: 12T10A03 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
TLO (1)	Test	2.6	1:12	5.2
TLO (2)	Test Review	0.4	1:24	0.4
Summary	Conference / Discussion	0.1	1:24	0.1
		Lesson Subtotal:	3.2	5.8
		MRAD Subtotal:	3.2	5.8

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

Module: A / 1

Lesson: 12T10A04 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
ELO A (1)	Conference / Discussion	0.7	1:24	0.7
ELO A (2)	Conference / Discussion	2.5	1:24	2.5
ELO A (3)	Conference / Discussion	2.0	1:24	2.0
ELO A (4)	Conference / Discussion	2.0	1:24	2.0
ELO B (3)	Demonstration	1.0	1:8	3.0
ELO B (5)	Demonstration	3.0	1:8	9.0
ELO B (10)	Demonstration	3.0	1:8	9.0
ELO B (11)	Demonstration	5.0	1:8	15.0
ELO C (2)	Demonstration	3.0	1:8	9.0
ELO C (3)	Practical Exercise (Performance)	5.0	1:12	10.0
ELO C (4)	Practical Exercise (Performance)	5.0	1:8	15.0
ELO C (5)	Demonstration	3.0	1:8	9.0
ELO D (1)	Conference / Discussion	2.0	1:24	2.0
ELO D (2)	Demonstration	1.0	1:8	3.0
ELO D (3)	Practical Exercise (Performance)	5.0	1:12	10.0
ELO D (4)	Practical Exercise (Performance)	4.0	1:12	8.0
ELO B (1)	Demonstration	2.0	1:8	6.0
ELO B (2)	Demonstration	2.0	1:12	4.0
ELO B (4)	Demonstration	3.0	1:8	9.0
ELO B (6)	Demonstration	2.5	1:8	7.5
ELO B (7)	Demonstration	1.5	1:8	4.5
ELO B (8)	Demonstration	2.0	1:8	6.0
ELO B (9)	Practical Exercise (Performance)	6.0	1:8	18.0
ELO B (12)	Demonstration	4.5	1:8	13.5
ELO C (1)	Demonstration	1.0	1:8	3.0
ELO C (6)	Demonstration	3.5	1:8	10.5
ELO C (7)	Practical Exercise (Performance)	4.5	1:12	9.0
Summary	Conference / Discussion	0.1	1:24	0.1
Lesson Subtotal:		79.9		200.4
MRAD Subtotal:		79.9		200.4

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1
Preparation Date: 22 Jul 2010
Optimum Class Size: 24

Module: A / 1 **Lesson:** 12T10A05 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
TLO (1)	Test	3.6	1:12	7.2
TLO (2)	Test Review	0.4	1:24	0.4
Summary	Conference / Discussion	0.1	1:24	0.1
Lesson Subtotal:		4.2		7.8
MRAD Subtotal:		4.2		7.8

Module: A / 1 **Lesson:** 12T10A06 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
ELO A (1)	Conference / Discussion	1.0	1:24	1.0
ELO A (2)	Demonstration	3.0	1:8	9.0
ELO A (3)	Practical Exercise (Performance)	4.0	1:12	8.0
ELO B (1)	Conference / Discussion	1.0	1:24	1.0
ELO B (2)	Demonstration	2.5	1:8	7.5
ELO B (3)	Practical Exercise (Performance)	4.6	1:12	9.2
ELO C (1)	Conference / Discussion	1.0	1:24	1.0
ELO C (2)	Demonstration	2.6	1:8	7.8
ELO C (3)	Practical Exercise (Performance)	4.6	1:12	9.2
ELO C (4)	Practical Exercise (Performance)	4.0	1:12	8.0
Summary	Conference / Discussion	0.1	1:24	0.1
Lesson Subtotal:		28.5		61.9
MRAD Subtotal:		28.5		61.9

Module: A / 1 **Lesson:** 12T10A07 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
TLO (1)	Test	2.6	1:12	5.2
TLO (2)	Test Review	0.4	1:24	0.4
Summary	Conference / Discussion	0.1	1:24	0.1
Lesson Subtotal:		3.2		5.8
MRAD Subtotal:		3.2		5.8

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1
Preparation Date: 22 Jul 2010
Optimum Class Size: 24

Module: A / 1 **Lesson:** 12T10A08 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
ELO A (1)	Conference / Discussion	1.0	1:24	1.0
ELO A (2)	Demonstration	3.0	1:8	9.0
ELO A (3)	Practical Exercise (Performance)	4.0	1:12	8.0
ELO A (4)	Demonstration	4.0	1:8	12.0
ELO A (5)	Practical Exercise (Performance)	4.0	1:12	8.0
ELO B (1)	Demonstration	1.0	1:8	3.0
ELO B (2)	Practical Exercise (Performance)	2.5	1:12	5.0
ELO C (1)	Demonstration	1.0	1:8	3.0
ELO C (2)	Practical Exercise (Performance)	2.6	1:12	5.2
ELO D (1)	Demonstration	0.5	1:24	0.5
ELO D (2)	Practical Exercise (Performance)	0.5	1:12	1.0
ELO D (3)	Practical Exercise (Performance)	3.6	1:12	7.2
Summary	Conference / Discussion	0.1	1:24	0.1
Lesson Subtotal:		27.9		63.1
MRAD Subtotal:		27.9		63.1

Module: A / 1 **Lesson:** 12T10A09 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
TLO (1)	Test	4.6	1:12	9.2
TLO (2)	Test Review	0.3	1:24	0.3
Summary	Conference / Discussion	0.1	1:24	0.1
Lesson Subtotal:		5.1		9.7
MRAD Subtotal:		5.1		9.7

Module: B / 1 **Lesson:** 12T10B01 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
ELO A (1)	Conference / Discussion	0.6	1:24	0.6
ELO A (2)	Practical Exercise (Hands-on)	1.6	1:6	6.4
ELO A (3)	Conference / Discussion	2.0	1:24	2.0
ELO A (4)	Practical Exercise (Written)	0.6	1:12	1.2
ELO A (5)	Conference / Discussion	0.6	1:24	0.6
ELO A (6)	Conference / Discussion	0.6	1:24	0.6
ELO A (7)	Conference / Discussion	1.6	1:24	1.6
ELO A (8)	Practical Exercise (Written)	3.6	1:12	7.2
ELO B (1)	Conference / Discussion	0.6	1:24	0.6
ELO B (2)	Practical Exercise (Written)	3.6	1:12	7.2
ELO B (3)	Demonstration	2.0	1:6	8.0

Course: 413-12T10

Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

Preparation Date: 22 Jul 2010

Status: Commandant Approved

Optimum Class Size: 24

Module: B / 1

Lesson: 12T10B01 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
ELO B (4)	Practical Exercise (Performance)	14.4	1:6	57.6
Summary	Conference / Discussion	0.1	1:24	0.1
		Lesson Subtotal:	32.0	93.8
		MRAD Subtotal:	32.0	93.8

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1
Preparation Date: 22 Jul 2010
Optimum Class Size: 24

Module: B / 1 **Lesson:** 12T10B02 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
TLO (1)	Test	1.3	1:24	1.3
TLO (2)	Test Review	0.2	1:24	0.2
Summary	Conference / Discussion	0.1	1:24	0.1
Lesson Subtotal:		1.7		1.7
MRAD Subtotal:		1.7		1.7

Module: B / 1 **Lesson:** 12T10B03 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
ELO A (1)	Conference / Discussion	0.6	1:24	0.6
ELO A (2)	Demonstration	0.6	1:24	0.6
ELO A (3)	Conference / Discussion	2.0	1:24	2.0
ELO B (1)	Demonstration	1.0	1:6	4.0
ELO B (2)	Practical Exercise (Performance)	4.0	1:6	16.0
ELO B (3)	Conference / Discussion	1.0	1:24	1.0
ELO B (4)	Demonstration	1.0	1:6	4.0
ELO B (5)	Practical Exercise (Performance)	6.0	1:6	24.0
ELO C (1)	Demonstration	1.0	1:6	4.0
ELO C (2)	Practical Exercise (Performance)	10.7	1:6	42.8
ELO D (1)	Demonstration	1.0	1:24	1.0
ELO D (2)	Practical Exercise (Performance)	1.0	1:12	2.0
ELO D (3)	Practical Exercise (Performance)	16.0	1:6	64.0
ELO E (1)	Conference / Discussion	1.0	1:24	1.0
ELO E (2)	Demonstration	1.0	1:24	1.0
ELO E (3)	Demonstration	1.0	1:24	1.0
ELO E (4)	Practical Exercise (Performance)	4.0	1:6	16.0
ELO E (5)	Demonstration	1.0	1:24	1.0
ELO E (6)	Practical Exercise (Performance)	2.0	1:12	4.0
Summary	Conference / Discussion	0.1	1:24	0.1
Lesson Subtotal:		56.1		190.2
MRAD Subtotal:		56.1		190.2

Course: 413-12T10
Course Name: Technical Engineer
Management Category: Resident
Status: Commandant Approved

Version: 1 **Delivery Group:** A **Phase:** 1

Preparation Date: 22 Jul 2010

Optimum Class Size: 24

Module: B / 1

Lesson: 12T10B04 / 1

<u>Step</u>	<u>Method of Instruction</u>	<u>Time of Instruction</u>	<u>Instructor to Student</u>	<u>ICH</u>
Introduction	Conference / Discussion	0.1	1:24	0.1
TLO (1)	Test	3.6	1:6	14.4
TLO (2)	Test Review	0.6	1:24	0.6
Summary	Conference / Discussion	0.1	1:24	0.1
Lesson Subtotal:		4.4		15.2
MRAD Subtotal:		4.4		15.2
Totals - Time of Instruction - Lesson:		254.2	ICH - Lesson:	668.4
MRAD:		254.2	MRAD:	668.4
Delta:		0.0		0.0

Course: 413-12T10

Version: 1

Delivery Group: A **Phase:** 1

Course Name: Technical Engineer

Management Category: Resident

Preparation Date: 22 Jul 2010

Status: Commandant Approved

Optimum Class Size: 24

Headquarters Memorandum

None