

Attachment 004 Training Plan and Draft Training Support Package

TRAINING PLAN REQUIREMENTS

- A. PROVIDE TRAINING OUTLINE WHICH CONTAINS THE FOLLOWING:
 - 1. DESCRIPTION OF COURSES TO BE EXECUTED FOR THE SYSTEM (E.G. OPERATOR, SETUP/CONFIGURATION, ETC.)
 - 2. DESCRIPTION OF TARGET AUDIENCE TO BE TRAINED FOR EACH COURSE (MOS AND RANK)
 - 3. NUMBER OF STUDENTS PER CLASS.
 - 4. LENGTH OF EACH COURSE TO BE EXECUTED.
 - 5. EQUIPMENT REQUIREMENTS FOR EACH COURSE IN EXECUTING TRAINING.
- B. PROVIDE A TASK LIST THAT INCLUDES CONDITIONS AND STANDARDS FOR EACH COURSE TO BE TAUGHT (E.G. OPERATOR, SETUP/CONFIGURATION).
- C. PROVIDE A LIST AND DESCRIPTION OF REQUIRED RESOURCES (CLASSROOMS, FACILITIES ETC) TO CONDUCT TRAINING.
- D. PROVIDE A DESCRIPTION OF ANY REQUIRED PRE-REQUISITE TRAINING TO BE EXECUTED PRIOR TO SYSTEM TRAINING.
- E. DRAFT COURSE (OPERATOR, SETUP/CONFIGURATION, ETC.) TRAINING PACKAGE WHICH CONTAINS:
 - 1. LESSON PLANS FOR EACH COURSE TO BE EXECUTED:
 - a. LESSON PLANS MUST CONTAIN THE TASKS TO BE TRAINED AND THE LEARNING STEPS TO PERFORM THE TASKS.
 - b. EACH LESSON PLAN MUST CONTAIN SUFFICIENT CONTENT TO TRAIN/EDUCATE SOLDIERS ON THE KNOWLEDGE REQUIRED TO EFFECTIVELY AND SAFELY SET-UP /START-UP, OPERATE, POWER DOWN /SHUT DOWNOPERATE, AND OR CONFIGURE THE SYSTEM.
 - c. ANY OTHER TRAINING PRODUCTS REQUIRED TO TRAIN/EDUCATE THE SOLDIERS ON THE SYSTEM (E.G. OPERATOR MANUALS, TRAINING AIDS, ETC.)

See EXAMPLES Below

EXAMPLES

1. TASK DEFINITION: THE LOWEST BEHAVIORAL LEVEL BY A SOLDIER THAT IS PERFORMED FOR ITS OWN SAKE. TWO TYPES OF TASKS ASSOCIATED WITH MOST SYSTEMS ARE OPERATOR AND MAINTAINER TASKS.

EXAMPLE OF A PROPERLY WRITTEN TASK: CONDUCT START-UP PROCEDURES FOR THE TRANSCEIVER.

2. TASK COMPONENTS: ACTION, CONDITION, AND STANDARDS:

Task title (Action)	An individual task title consists of only one appropriate, present tense, action verb and only one object. Example : Identify start-up procedures for the Transceiver
Condition	Reflects on-the job conditions as closely as possible. a. Tells what starts the performance. b. States the limits or constraints on performance. c. Identifies equipment, materials, tools, job aids, manuals, references, etc. required. d. Identifies safety and environmental considerations. Example: In a classroom environment, given a Transceiver, classroom instructions, and references TM 11-7010-484-13&P, TM 11-7025-326-13&P, and TB 11-7010-356-10-3.
Standard	Clear, observable, and measurable standard(s) that provide criteria for evaluating performance relevant to the condition (classroom / field). a. A verb phrase that identifies what the standard will evaluate (that is, the process the soldier performs, the product produced, or both). b. The performance criteria that establish how well a task must be performed in the field. Example: Is met when the student has <u>demonstrated</u> the <u>correct</u> Transceiver start-up procedures.

3. TASK LIST: A list of all individual tasks performed by all Soldiers operating, maintaining, or setting-up and configuring the system. There should be a task list for each separate course.

Example of a Task List:

TASK#1.

Action: Identify start-up procedures for the Transceiver

Condition: In a classroom environment, given a Transceiver, classroom instructions, and references TM 11-7010-484-13&P, TM 11-7025-326-13&P, and TB 11-7010-356-10-3.

Standard: Is met when the student has demonstrated the correct Transceiver start-up procedures.

TASK#2.

Action: XXXXXX

Condition: XXXXX

Standard: XXXX

EXAMPLE LESSON PLAN

(NOTE: This is the recommended format however not required as long as all required information is provided in a simple, easy to identify key points/follow format)

JCR LOG (1.3.1.3) PLATFORM COURSE INTRODUCTION
01-LP-JCR_LOG-OP-01 / Version # (Lesson ID)
SEPTEMBER 2011

SECTION I. ADMINISTRATIVE DATA

Academic Hours

The academic hours required to teach this lesson are as follows:

Resident Hours/Methods

1 hr 05 min Conference
0 hr 35 min Conference/Demonstration

Total Hours: 1 hr 40 min

Test Lesson Number

	<u>Hours</u>	<u>Lesson Number</u>
Testing (to include test review)	_____	N/A _____

Prerequisite Lesson(s)

<u>Lesson Number</u>	<u>Lesson Title</u>
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Clearance Access

Security Level: Unclassified

Requirements: There are no clearance or access requirements for the lesson.

Foreign Disclosure Restrictions

FD6. This product/publication has been reviewed by the product developers in coordination with the Fort Benning (G2) foreign disclosure authority. This product is releasable to Soldiers from foreign countries on a case-by-case basis.

References

<u>Number</u>	<u>Title</u>	<u>Date</u>	<u>Additional Information</u>
TM 11-7010-484-13&P	OPERATOR AND FIELD MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR MOVEMENT TRACKING SYSTEM (MTS) MOBILE UNIT AN/UYQ-90(V)2 MILITARY RUGGED TABLET (MRT)	15 Nov 2010	
TM 11-7025-326-13&P	OPERATOR AND FIELD MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR CA-131/P MISSION DATA LOADER	1 Jul 2008	
TB 11-7010-356-10-3	INTERACTIVE SOFTWARE USERS MANUAL (ISUM)	11 Jun 2010	

Soldier Study Assignments**Instructor Requirements**

One (1) Primary Instructor (PI) and one (1) Assistant Instructor (AI) - per 30 Soldiers.

Additional Support Personnel Requirements	<u>Name</u>	<u>Stu Ratio</u>	<u>Qty</u>	<u>Man Hours</u>
	None			

Equipment Required for Instruction	<u>ID Name</u>	<u>Stu Ratio</u>	<u>Instr Ratio</u>	<u>Spt</u>	<u>Qty</u>	<u>Exp</u>
	AN/UYQ-90(V)2 Military Rugged Tablet (MRT) system complete with JCR software	1:2	1:1	No	16 ea	
	Signal Splitter (to switch between lesson viewgraphs and live JCR Log Platform screen)		1:1	No	1ea	
	Network Cables	1:2	1:1		16ea	
	Hub				2ea	
	Whiteboard and Marker Set		1:1	No	1ea	
	Lectern		1:1	No	1ea	
	Mission Data Loader with Cable/USB Port		1:1	No	1ea	
	Multimedia Projector (with spare bulb)		1:1	No	1ea	
	Laptop or PC (with MS PowerPoint)		1:1	No	1ea	
	25' Extension Cord		1:1	No	1ea	

NOTE: This equipment list may vary based on resources available.

Materials Required
Instructor Materials:
 Class Roster
 Program of Instruction (POI)
 Viewgraphs

Soldier Materials:
 Pencil
 Pens
 Highlighters
 Paper

Classroom, Training Area, and Range Requirements
 Environmentally controlled classroom facility with tables and chairs.

Ammunition Requirements**ID
Name****Exp****Stu
Ratio****Instr
Ratio****Spt
Qty**None

Instructional Guidance

NOTE: Before presenting this lesson, instructors must thoroughly prepare by studying this lesson and the identified reference material. It should be noted that there are multiple ways to address many of the lessons and learning activities, providing latitude for the instructor to teach in any environment.

1. Viewgraphs provide some walk-through demonstration slides.
2. Use of a video splitter can provide demonstration using live applications.

Prior to Soldiers' Arrival

1. Make sure all Lesson Plans and accompanying Viewgraphs are appropriate for the JCR Log Platform configuration being used for training JCR.
2. Review appropriate manuals with changes.
3. Prior to instruction, inspect all training materials for serviceability and ensure they are complete with all required components.
4. Have training site prepared 30 minutes prior to Soldiers' arrival.
5. The Instructor JCR Log Platform should be powered on with UTO loaded. The role should be set as Battalion (Squadron) Commander (BN CDR). In addition, messages and addressing should be set prior to class so that the functionality of the software can be demonstrated.

After Soldiers' Arrival:

1. Ask questions throughout the presentation to draw Soldiers into the discussion.
2. Check that all changes are posted in Soldiers' Technical Manuals (TMs) and Technical Bulletins (TBs).
3. Demonstrate each task and each task step.
4. Monitor the Soldiers during reviews and check-on-learning exercises. Provide on-the-spot corrections, and critique the Soldiers' performance during the Practical Exercises.
5. Direct Soldiers to the References listed at the beginning of this lesson plan. Explain to the Soldiers that as the system evolves, technical publications will be updated periodically.
6. Re-emphasize the Cautions and Warnings as the preventive measures the Soldiers must follow when operating the system.

Instructor Note: As an instructor, there is the option of presenting lessons in more than one way. Viewgraphs are provided with each lesson to illustrate concepts and functions. The preferred method is to use the video splitter with the slide PC to input live video from the demonstrator's system. This way, Soldiers can see operations and follow along on their MRTs. If desired, switch between the two inputs for maximum effectiveness in lesson presentation.

Proponent Lesson Plan Approvals**Name****Rank****Position****Date**

SECTION II: INTRODUCTION

Method of Instruction: <u>Conference</u>
Instructor to Soldier Ratio: <u>2:30</u>
Time of Instruction: <u>5 min</u>
Media: <u>Large Group Instruction</u>

Motivator

NOTE: Display VG “LESSON 1: JCR LOG (1.3.1.3) PLATFORM COURSE INTRODUCTION” as Soldiers enter the classroom.

NOTE: Display VG “Motivator”

The Joint Capabilities Release Logistics (JCR Log) Platform provides Combat Service Support (CSS) elements with the ability to bring logistics into the digitized battlefield with increased Situational Awareness (SA).

JCR Log Platform offers the communications and tracking necessary for Common User Logistics Transport (CULT) vehicles and other select CSS assets to complete their distribution missions. This technology provides the means for the Transportation Movement Control and Operations sections to exercise assured positive control of assets anywhere in the world.

Your ability to successfully use the functions of JCR Log Platform is critical to fielding the next generation of Command and Control (C2) communication systems for the 21st century.

NOTE: Display VG “Terminal Learning Objective”

Inform the Soldiers of the Terminal Learning Objective requirements.

Also, inform the Soldiers of the Enabling Learning Objective requirements.

Terminal Learning Objective

At the completion of this lesson, you [the Soldier] will:

Action:	Identify course introduction.
Conditions:	In a classroom environment, given a JCR Log Platform, classroom instructions, and references TM 11-7010-484-13&P, TM 11-7025-326-13&P, and TB 11-7010-356-10-3.
Standards:	You must: <ul style="list-style-type: none"> A. Identify Elements of Course Introduction. B. Identify Getting Started Descriptions on JCR Log Platform. C. Identify JCR Log Platform Controls and Indicators.

Safety Requirements

Adhere to all Warnings and Cautions in the TM to prevent injury to personnel and/or damage to any equipment.

Risk Assessment Level	Low – Risk assessment must be conducted by the primary instructor prior to Soldier arrival.
Environmental Considerations	NOTE: It is the responsibility of all Soldiers and Department of Army (DA) civilians to protect the environment from damage.
Evaluation	This lesson provides administrative details and overview information regarding the course. Evaluation is conducted through questioning Soldiers to ensure that they understand, and will comply with, the training requirements.
Instructional Lead-In	Welcome to the JCR Log Platform Course. I am... (Provide introduction and background of yourself and other instructors, including military background and experience with JCR Log Platform.)

NOTE: Depending upon the system and configuration, various dialog boxes may or may not appear. Answer each dialog box using your best judgment if not noted in the procedures.

SECTION III. PRESENTATION

A. ENABLING LEARNING OBJECTIVE

Action:	Identify elements of course introduction.
Conditions:	In a classroom environment, given a JCR Log Platform, classroom instructions, and references TM 11-7010-484-13&P, TM 11-7025-326-13&P, and TB 11-7010-356-10-3.
Standards:	You must: 1. Review administrative details. 2. Review course safety requirements. 3. Identify classroom configuration and task organization. 4. Identify JCR Log reference material.

1. Learning Step/Activity 1: Review Administrative Details.

Method of Instruction: Conference

Instructor to Soldier Ratio: 2:30

Time of Instruction: 5 min

Media: Large Group Instruction

NOTE: Display VG “ELO A: Identify Elements of Course Introduction”

NOTE: Display VG “Lesson Purpose”

- a. Lesson Purpose: The purpose of this first lesson is to inform the Soldiers of administrative requirements, course safety requirements, classroom configuration, task organization, JCR Log Platform reference material, and a course overview where hardware controls and indicators are introduced and described. In addition, the Instructor should inform the Soldiers of break locations, restroom locations, and class rules.

INSTRUCTOR NOTE: Ensure Soldiers sign in and register for the course IAW the proper procedures.

NOTE: Display VG “Lesson Scope”

- b. Lesson Scope: This training provides instruction on the JCR Log Platform. Lessons are designed to build on each other, beginning with preparation for CSS using JCR Log Platform and continuing through the features and functions of the system.

NOTE: Display VG “Training Conduct”

- c. Training Conduct:
(1) Teaching Plan:

- (a) Total days
- (b) Hours per day

(2) Daily schedule:

- (a) Beginning/ending times
- (b) Lunch time
- (c) Class breaks

(3) Registration: Attendance roster.

(4) Facilities locations:

- (a) Restrooms
- (b) Break areas
- (c) Snack machines

NOTE: Display VG “Training Policies”

(5) Policies:

- (a) No tobacco products in classroom.
- (b) No consumption of food or beverages in classroom.
- (c) Cell phones turned off or to vibrate; no texting.

INSTRUCTOR NOTE: Any Soldier who is not able to adhere to the schedule must inform the Instructor at this time. Make sure Soldiers complete administrative paperwork and turn it in before proceeding.

NOTE: Conduct a check on learning and summarize the learning activity.

2. Learning Step/Activity 2: Review Course Safety Requirements.

Method of Instruction: Conference

Instructor to Soldier Ratio: 2:30

Time of Instruction: 5 min

Media: Large Group Instruction

NOTE: Display VG “Safety Precautions (1 of 2)”

INSTRUCTOR NOTE: Explain to Soldier that they should always refer to the Technical Manuals for specific Notes, Cautions and Warnings whenever operating, maintaining or troubleshooting the JCR Log system.

NOTE: Display VG “Safety Precautions (2 of 2)”

INSTRUCTOR NOTE: Inform Soldiers that these Safety Precautions and Safety Steps apply to

ALL lessons.

- a. Safety Precautions: Observe the following precautions when operating electrical equipment in this classroom:
- (1) Electrocutation can result when operating equipment without proper grounding.
 - (2) Do not place equipment directly on wet ground, snow, or ice for operation.
 - (3) When equipment uses power line voltage, serious injury or death may occur on contact.
 - (4) Observe safety precautions when connecting power cables or performing maintenance.
 - (5) Before connecting the equipment to a power source, turn off all power switches.
 - (6) Only use approved heavy-duty power cords.

NOTE: Display VG “Safety Steps”

- b. Safety Steps: Follow these safety steps in case of an electrical incident:
- (1) Send for help as soon as possible.
 - (2) Never touch or grab someone enduring an electrical shock.
 - (3) If possible, turn OFF the source of electrical power.
 - (4) If you cannot turn OFF the electrical power, pull, push, or lift the person to safety using a wooden pole, rope, or some other insulated material.
 - (5) Once removed from contact with the electrical source, start Cardiopulmonary Resuscitation (CPR) on the person, if necessary.

NOTE: Conduct a check on learning and summarize the learning activity.

3. Learning Step/Activity 3: Identify Classroom Configuration and Task Organization.

Method of Instruction: Conference

Instructor to Soldier Ratio: 2:30

Time of Instruction: 10 min

Media: Large Group Instruction

NOTE: Display VG “Role-based Functionality (1 of 2)”

- a. Role-based functionality:

INSTRUCTOR NOTE: Explain classroom configuration and task organization with the aid of the Viewgraphs.

Emphasize to Soldiers that classroom configuration is designed to model MRTs loaded with JCR 1.3.1.3 software and configured as Platforms. The intent is to replicate the authorized Platforms for an actual Unit.

Classroom task organization is IAW the installed Unit Task Organization (UTO.) This is only one example, and it is dependent on resources.

- (1) JCR Log Platform uses system role to determine appropriate level of access for messages or SA edit function. SA refers to knowledge of your own location, the location of other friendly forces, observed enemy force locations, and battlefield hazards. As an example of role-based functionality, all users have access to the SPOT Report, but only users with Access Level 3 or 4 have access to the Threat Warning Report.
- (2) Roles are configured into one of the following four categories for functionality:
 - (a) Level 1: Platform/Wingman/Squad Leader
 - (b) Level 2: Platoon Leadership
 - (c) Level 3: Company/Battery/Troop Leadership
 - (d) Level 4: Battalion/Squadron/Brigade/Regiment Leadership and Staff

NOTE: Display VG “Role-based Functionality (2 of 2)”

- (3) There are exceptions to the above categories. These exception roles fall under Access Level 4 for access purposes:
 - (a) Scout Platoons
 - (b) Reconnaissance Troops
 - (c) Company-Level TOCs
 - (d) Military Police Platoons
 - (e) Aircraft
 - (f) Blue Force Tracking Systems
 - (g) Strykers
- (4) Access Level 1 can edit/delete geo-reference objects created (reported) by their own JCR Log systems.
- (5) Access Level 2 and greater can edit/delete all icons except Distributed Common Ground System-Army (DCGS-A)-reported data and auto-posted friendly Position Report platform data.

INSTRUCTOR NOTE: Select classroom roles that are in alignment with the Unit that is being trained.

INSTRUCTOR NOTE: Instructor Platform role will be Battalion (Squadron) Commander (BN CDR).

- b. JCR Log Platform classroom task organization:
 - (1) The Instructor performs the role of BN CDR. Platform Operator roles could include, for example, CDRWHL-HHT-SPTSQDN-2SCR, 1SG-HHT-SPTSQDN-2SCR and CGO-HHT-SPTSQDN-2SCR.
 - (2) Operator roles can include Company/Troop Commander (CDR), Executive Officer (XO), First Sergeant (1SG), and Company Headquarters (HQ) or Command Post (CP).
 - (3) Classroom configuration uses 15 MRT units configured with JCR. Each MRT is to be shared by no more than 2 Soldiers.

NOTE: Conduct a check on learning and summarize the learning activity.

4. Learning Step/Activity 4: Identify JCR Log Platform Reference Material.

Method of Instruction: Conference

Instructor to Soldier Ratio: 2:30

Time of Instruction: 10 min

Media: Large Group Instruction

NOTE: Display VG “References”

NOTE: There are several sources of information available to assist in the operation of the JCR Log Platform.

INSTRUCTOR NOTE: Guide Soldiers through references to ensure they know how to find information. The goal is to have the Soldiers thoroughly understand and use reference materials.

- a. TM 11-7010-484-13&P, OPERATOR AND FIELD MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR MOVEMENT TRACKING SYSTEM (MTS) MOBILE UNIT AN/UYQ-90(V)2 MILITARY RUGGED TABLET (MRT), 15 November 2010.
- b. TM 11-7025-326-13&P, OPERATOR AND FIELD MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR CA-131/P MISSION DATA LOADER, 1 July 2008.
- c. TB 11-7010-356-10-3, INTERACTIVE SOFTWARE USER’S MANUAL (ISUM), 11 July 2010.

NOTE: Conduct a check on learning and summarize the learning activity.



LESSON 1: JCR LOG (1.3.1.3) PLATFORM COURSE INTRODUCTION



JCR Log

Motivator

JCR Log Platform offers the communications and tracking necessary for Common User Logistics Transport (CULT) vehicles and other select CSS assets to complete their distribution missions. This technology provides the means for the Transportation Movement Control and Operations sections to exercise assured positive control of assets anywhere in the world.

September 2011

VG-JCR_LOG-OP-01-2

Terminal Learning Objective



Action:

- Identify administrative actions and requirements.

Conditions:

- In a classroom environment, given a JCR Log Platform, classroom instructions, and references TM 11-7010-484-13&P, TM 11-7025-326-13&P, and TB 11-7010-356-10-3.

Standards:

- A. Identify Elements of Course Introduction.
- B. Identify Getting Started Descriptions on JCR Log Platform.
- C. Identify JCR Log Platform Controls and Indicators.

ELO A: Identify Elements of Course Introduction



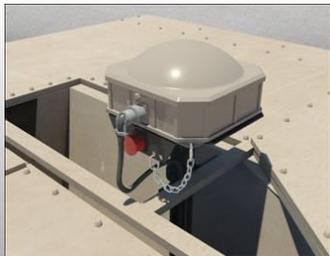
Lesson Purpose



- Administrative Requirements
- Course Safety Requirements
- Classroom Configuration
- Task Organization
- JCR Log Platform Reference Material
- Course Overview



Lesson Scope



This training provides instruction on the JCR Log Platform.

Lessons are designed to build on each other, beginning with preparation for CSS using JCR Log Platform and continuing through the features and functions of the system.

Training Conduct



Teaching plan:

- Total days
- Hours per day

Daily schedule:

- Beginning/ending times
- Lunch time
- Class breaks

Registration:

- Attendance roster

Facilities locations:

- Restrooms
- Break areas
- Snack machines



Training Policies



Policies:

- No tobacco products in classroom
- No consumption of food or beverages in classroom
- Cell phones turned off or on vibrate - no texting



Safety Precautions (1 of 2)



NOTES



CAUTIONS



WARNINGS

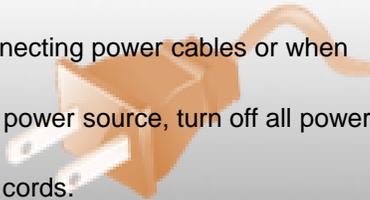
Refer to the TMs for specific Notes, Cautions and Warnings whenever operating, maintaining or troubleshooting the JCR Log Platform system.

Safety Precautions (2 of 2)



Observe the following precautions when operating electrical equipment in this classroom:

1. Electrocutation can result when operating equipment without proper grounding.
2. Do not place equipment directly on wet ground, snow, or ice for operation.
3. When equipment uses power line voltage, serious injury or death may occur on contact.
4. Observe safety precautions when connecting power cables or when performing maintenance.
5. Before connecting the equipment to a power source, turn off all power switches.
6. Only use approved heavy-duty power cords.



Safety Steps



Follow these safety steps in case of an electrical incident:

1. Send for help as soon as possible.
2. Never touch or grab someone enduring an electrical shock.
3. If possible, turn OFF the source of electrical power.
4. If you cannot turn OFF the electrical power, pull, push, or lift the person to safety using a wooden pole, rope, or some other insulated material.
5. Once removed from contact with the electrical source, start Cardiopulmonary Resuscitation (CPR) on the person, if necessary.



Role-based Functionality (1 of 2)



Can edit/delete all icons except Distributed Common Ground System-Army (DCGS-A)-reported data and auto-posted friendly Position Report platform data.

Level 4:
Battalion/Squadron/Brigade/Regiment
Leadership and Staff

Level 3:
Company/Battery/Troop Leadership

Level 2:
Platoon Leadership

Can edit/delete geo-reference objects created (reported) by their own JCR Log systems.

Level 1:
Platform/Wingman/Squad Leader

Role-based Functionality (2 of 2)



These exception roles are granted Access Level 4 functionality:

- Scout Platoons
- Reconnaissance Troops
- Company-Level Tactical Operations Centers (TOCs)
- Military Police Platoons
- Aircraft
- BFT Systems
- Strykers

References



What operational condition does a Black Gumball indicate?

- A. Degraded.
- B. Not Reporting.
- C. Not Tested.
- D. Not Configured.

Summary

1. Soldier Questions.
2. Summary of Main Teaching Points:
 - a. Identify elements of course introduction.
 - b. Identify getting started descriptions on JCR Log Platform.
 - c. Identify JCR Log Platform controls and indicators.

EXAMPLE OF A PRACTICAL EXERCISE

Appendix C - Practical Exercises and Solutions

PRACTICAL EXERCISE(S)/SOLUTION(S) FOR LESSON 1:

PRACTICAL EXERCISE SHEET

Title	Create An Overlay Using MCS/ABCS Workstation Capabilities						
Lesson Number / Title	Prepare Overlays Using MCS/ABCS Workstation Capabilities						
Security Classification	Unclassified						
Introduction	Create An Overlay Using MCS/ABCS Workstation Capabilities						
Motivator	As a leader, you should understand that information networks must be quick and dependable so as to enable the Army to project the force, protect the force, gain information superiority, determine the battlespace, conduct decisive operations, and sustain the force. The Contemporary Operational Environment (COE) increases the importance of Army Battle Command Systems. COE factors such as Physical Environment, Military Capabilities and Technology increase demands on ABCS.						
Terminal Learning Objective	<p>NOTE: The instructor should inform the students of the following Terminal Learning Objective covered by this practical exercise.</p> <p>At the completion of this lesson, you [the student] will:</p> <table border="1"> <tr> <td>Action:</td> <td>Apply MCS/ABCS Workstation Capabilities to create overlays.</td> </tr> <tr> <td>Conditions:</td> <td>Given an industry standard computer loaded with the Maneuver Control System (MCS) software, network switching equipment, cabling, and Practical Exercises while considering the Contemporary Operational Environment (COE).</td> </tr> <tr> <td>Standards:</td> <td>Is met when the student has demonstrated how to create map overlays using MCS Workstation and share information with higher and lower echelon units that utilizes other ABCS systems.</td> </tr> </table>	Action:	Apply MCS/ABCS Workstation Capabilities to create overlays.	Conditions:	Given an industry standard computer loaded with the Maneuver Control System (MCS) software, network switching equipment, cabling, and Practical Exercises while considering the Contemporary Operational Environment (COE).	Standards:	Is met when the student has demonstrated how to create map overlays using MCS Workstation and share information with higher and lower echelon units that utilizes other ABCS systems.
Action:	Apply MCS/ABCS Workstation Capabilities to create overlays.						
Conditions:	Given an industry standard computer loaded with the Maneuver Control System (MCS) software, network switching equipment, cabling, and Practical Exercises while considering the Contemporary Operational Environment (COE).						
Standards:	Is met when the student has demonstrated how to create map overlays using MCS Workstation and share information with higher and lower echelon units that utilizes other ABCS systems.						
Safety Requirements	The student will be reminded of the Army Safety Program and its relationship to their conduct and performance at all times.						
Risk Assessment	Low						
Environmental Considerations	NOTE: It is the responsibility of all soldiers and DA civilians to protect the environment from damage.						
Evaluation	This lesson has no examination						
Instructional Lead-In	During Operation Desert Storm, Army leaders implemented lethal platforms supported by automation. This decision was made back in the 1980's. Because of today's technology the Army and other services continue to enhance the lethality and force protection of the total force by having develop an automated C2 systems. This means that force projection, split-based operations, information						

warfare, and joint/combined operations is imperative.

**Resource
Requirements**

Instructor Materials:

Standard Desktop Computer
ABCS Leader's Reference Guide
ABCS PowerPoint Slides

Student Materials:

ABCS Leader's Reference Guide

**Special
Instructions**

Procedures

1. Create A Shortcut To MCS

- a. Right-click on the word "**Unclassified Banner**" at the top of page and select "**New Shortcut**" from the menu.
- b. Click on the "**Browse**" button and look for a folder call "**Maps and Overlays**".
- c. Click on file and scroll down until you see a file called "**maps.exe**" or "**globe of the world**" and double-click to select.
- d. Click "**Next**" => click "**Finish**". (Note: Your shortcut should now be created).

2. Create A New Mission

- a. Double-click on the shortcut you created, "**Maps and Overlays**". (Note: This will now take you to your "**Theme Page**").
- b. Select "**New Mission**" and use the following information:

Mission Name: Desert Eagle XX (XX = Workstation #)

Map Name: AlbuquerqueNM (save as bookmark)

- c. Select the "**Choose**" button. This should open up the "**Select a Map Bookmark**" dialog box.
- d. Click on the "**Manage Bookmarks**" button. (Note: The "Map Manager" dialog box should open.)
- e. Left-click and drag a box around the **United States** map. (Note: A menu of available maps should display.)
- f. Double-click the "**1:500K – CADRG – CADRG\rpf**" to select it. (Note: Now the map should show up under **Map Manager**).

3. Bookmark Your Map

- a. Click on the "**Bookmark**" Tab and right-click in the blank area and a menu should open up
- b. Select "**Add a Bookmark**".

- c. Name the bookmark based on the Map Name (**Albuquerque_1_500K**) window and press "**Enter**" to save your bookmark.
- d. Exit out of **Map Manager**.
- e. Once you close **Map Manager**, you will return to the "**Select a Map Bookmark**" window.
- f. Click on the bookmark you just created and it should show the map in the "**Bookmark Preview**" window.
- g. Click "**OK**" twice and the system should return you to your "**New Mission**" page.
- h. Click "**OK**" and this will take you back to your "**Theme Page**".

4. Using The "Go To" Tool To Pinpoint The Exact Location On The Map

- a. From the Toolbar, click on the "**Go To**" icon. (Note: The "**Go To**" window should open.)
- b. Enter the following Grid Coordinate: **13SCU 59210 78014** and press the "Go To" button (to center on Albuquerque, New Mexico and save as bookmark).
- c. After you click the "**Go To**" button and you should see a "**Red Cross-hair**" on your map show you that exact location.
- d. Now bookmark this area using the following name:

Name: **1_500K_AlbuquerNM**

5. Add An Overlay

- a. In the upper half of the left-pane, right click on your map name in the "**Mission Explorer**" window that you created.
- b. Select **New => Overlay** from the menu and the "**Add New Overlay**" window should open and you should you the following name:

Name of Overlay: **Taskforce_Ready_001**

- c. Click on the "**Add**" button to close window and now you should see the newly created overlay in the "**Mission Explorer**" window.

6. Add Units, Lines, And Assembly Areas To Your Overlay

- a. Click on "**Draw**" from the menu bar and click on "**Units**" and add the following units:
 - 1) Units – 3 Armor
 - 2 Aviation
 - 2 Infantry
 - 3 Signals

- b. On the Toolbar, click on the "**Affiliation**" drop down box and change it from "Friendly" (**BLUE**) to "Hostile" (**RED**) and add the following Units:
 - 1) Units – 4 Enemy Infantry
 - 2 Enemy Signal
- c. On the Toolbar, click on the "**Affiliation**" drop down box and change it back to "Friendly" (**BLUE**) and add the following Lines:
 - 1) Lines – 1 Line of Departure
 - 1 Line of Contact
- d. From the menu bar, click on "**Draw => Areas => Assembly Area**" and place it around all of your friendly units.
- e. Rename your Assembly Area to your **Lastname** and change lines color to "**Yellow**".
 - 1) Place the cursor directly on the line you want to change.
 - 2) Right-click and choose "**Symbol Editor**" and the "**Editing Assembly Area**" window should open.
 - 3) Click on the "**Attributes**" Tab and **uncheck "Use Affiliation Line Color"** and "**Use Default Font**".
 - 4) Select "**Line Color**" and choose "**Yellow**".
 - 5) Click on "**OP Data**" Tab and enter your **Lastname** and click "**Apply**".

7. Change the Map Zoom to 75%

- a. On the menu bar, move your cursor to the "Zoom" drop down box and select "75%".

8. Create An Overlay Using A 1:500k CADRG (SWA) Map

- a. Bookmark it and name it BOLC_10 using the Go to Tool place assorted Units on Map.
 - 1) Armor 38 RQV 73625 50383 (color **BLUE**)
 - Infantry 38 RQV 77762 10963
 - Infantry 38 RQV 61652 41239
 - Infantry 38 RQV 75008 71955

9. Draw a Boundary Line Around Friendly Units (color **Green)**

10. Enemy (color **RED)**

- 1) Field Artillery 38 RQV 42956 52549 (color **RED**)

Infantry 38 RQV 50911 44840
Infantry 38 RQV 51735 21468

11. Draw An Axis of Advance Attack

- a. From the menu bar, click on "**Draw => Routes => Axis of Advance – Ground – Main Attack**" to select this particular main attack to draw.
- b. Now move your cursor on the map to where you want to start drawing. Click and drag on the map to start drawing your **Axis of Advance Attack**. Double-click to end.

2) Lines – 1 Armor

2 Aviation
2 Infantry
3 Signals

12. Draw A Line of Contact

- a. From the menu bar, click on "**Draw => Lines => Line of Contact**" from the menu bar to add the following lines:
- b. Now click on the map to start drawing your "**Line of Contact**". Double-click to end.

13. Add New Overlays

1) Name: 1CAV Boundaries Desert Eagle xx DTG (xx = workstation #)

Type: Maneuver
State: Current

2) Name: 4ID routes Desert Eagle xx DTG

Type: Obstacle
State: Historic

**Feedback
Requirements**
