

Report Date: 29 Apr 2012

**Summary Report for Individual Task
113-583-1024
Install a Router
Status: Approved**

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

Condition: Given a Router (i.e. CISCO 4000, or 7000 series), a named host with a Pentium processor, 32 MB Random Access Memory (RAM) and at least 1 GB hard disk storage space, Router monitor with a Pentium processor, 16 MB RAM, and a 50 MB hard disk space, connected to a workstation or remote terminal or another host, Network Interface Card (NIC) with LAN drivers, network cabling in accordance with type of network being installed, Phillips screwdriver, Flat-blade screwdriver, Electrostatic Device (ESD) preventive wrist strap, Channel Service Unit/Digital Service Unit for the serial interfaces, server software which includes: MS Windows NT 3.0 or Santa Cruz Organization (SCO) Unix 4.0 or higher, monitor software includes: MS-DOS 6.2 or higher, MS Windows 3.11, Internet Working Operating System (IOS) 10.3 or higher, Ethernet transceiver, Token Ring Media Attachment Unit (MAU), Optical bypass switch, Network Server worksheet, Manufacturer's User Manuals, MFG USER MANUAL, ROUTER INSTALL GUIDE, and applicable Installation Guide. Some iterations of this task should be performed in MOPP.

Standard: Installed the router transferring and receiving packets without error from the source to the destination.

Special Condition: None

Special Standards: None

Special Equipment:

MOPP: Sometimes

Task Statements

Cue: None

DANGER ath on contact may result, if safety precautions are not observed.

WARNING None

CAUTION None

Remarks: None

Notes: None

Performance Steps

1. Prepare site and equipment.
2. Recognize functions of the Operating Systems Interconnection (OSI) Reference Mode.
3. Recognize functions of the Transmission Control Protocol and Internet Protocols (TCP/IP).
4. Select best method to subdivide network.
5. Configure/reconfigure hardware components as required.
6. Select best routing table method.
 - a. Prepare for external connections.
 - b. Make external connections.
 - c. Make final connections to the router.
7. Configure/reconfigure system software as required.
8. Define the subnet Mask.
9. Test connectivity of network(s).
10. Troubleshoot network as required.
11. Record network configuration information.
12. Disseminate planning worksheets to users.

(Asterisks indicates a leader performance step.)

Evaluation Preparation: None

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Prepared site and equipment.			
2. Recognized functions of the OSI Reference Mode.			
3. Recognized functions of the TCP/IP.			
4. Selected best method to subdivide network.			
5. Configured/reconfigured hardware components as required.			
6. Configured/reconfigured system software as required.			
7. Selected best routing table method.			
8. Defined the Subnet Mask.			
9. Tested Connectivity of network(s).			
10. Troubleshoot network as required.			
11. Recorded network configuration information.			
12. Disseminated planning worksheets to users.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	MFG USER MANUAL	Manufacturer's User Manual	No	No
	ROUTER INSTAL GUIDE	Router Installation (INSTAL) Guide	No	No

Environment: Environmental protection is not just the law but the right thing to do. It is continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects.

Safety: In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, NBC Protection, FM 3-11.5, CBRN Decontamination. Soldiers will be reminded of the Army Safety Program and its relationship to their conduct and performance at all times. All aspects of safety will be considered, to include equipment, electrical shock, lifting and carrying equipment, horseplay or anything else which could result in death or injury. High voltage is used in this equipment. Be careful when working around the equipment. Observe warning notes in the technical manuals and warning decals on the equipment.

In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, NBC Protection, FM 3-11.5, CBRN Decontamination.

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks :

Task Number	Title	Proponent	Status
11-6-7036	Operate a Local Area Network (LAN) (Bde & Bn S6s/NSC/NSD)	11 - Signal (Collective)	Approved
11-5-8055	Conduct Command Communications Team Support Activities (CG Commo Team)	11 - Signal (Collective)	Reviewed
11-6-0204	Establish the Network Management Suite	11 - Signal (Collective)	Approved
11-6-7112	Operate a Tactical Internet (TI) (Sig Bn & Bde S3)	11 - Signal (Collective)	Approved
11-5-0724	Conduct Unit Network Defense in Depth (All Signal Companies)	11 - Signal (Collective)	Approved
11-5-0801	Perform BSC Systems and Network Engineering	11 - Signal (Collective)	Approved
11-5-0800	Perform BSC Information Systems and Network Operations	11 - Signal (Collective)	Approved

ICTL Data :

ICTL Title	Personnel Type	MOS Data
MOS 25P - Microwave Systems Operator-Maintainer - SL1	Enlisted	MOS: 25P, Skill Level: SL1