



Supporting Cisco Data Center Networking Devices (010-151)

Exam Description: The Cisco Certified Technician (CCT) (010-151) for Data Center is a 90-minute exam that consists of 65–75 questions and validates a technician’s competency in the following areas; basic Cisco NX-OS configuration, Cisco Data Center products and hardware components with an emphasis on the Cisco Unified Computing System (UCS).

The curriculum covers remedial services (HW break fix) on Cisco Data Center products, including hardware replacement, software and configuration backup and restore, check safety and environmental requirement, recognize connection type and cable requirement, and perform basic physical layer troubleshooting. The Cisco Certified Technician (CCT) should be competent in the following areas; basic Cisco NX-OS configuration, Cisco Data Center products and hardware components.

The Cisco Certified Technician should be able to perform remedial services (HW break fix) on Cisco Data Center products, including software and configuration backup and restore, check safety and environmental requirement, recognize connection type and cable requirement, and perform basic physical layer troubleshooting.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. In order to better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

- 17%** **1.0** **General Networking Knowledge**
 - 1.1 Demonstrate a high level understanding of SAN technology
 - 1.2 Describe what an IP address and subnet is. Add default gateway and subnet mask
 - 1.3 Differentiate between these Layer 2 technologies: Ethernet, Fast Ethernet, Gigabit Ethernet
 - 1.4 Describe what FTP does
 - 1.5 Describe what TFTP does
 - 1.6 Describe what Telnet does
 - 1.7 Describe what ping does
 - 1.8 Use the OSI and TCP/IP models and their associated protocols to explain how data flows in a network
 - 1.9 Identify and correct common network problems at Layers 1 and 2
 - 1.10 Identify the cabling and connectors

- 25%** **2.0** **Identify Cisco Equipment and Related Hardware**
 - 2.1 Describe the Cisco Unified Computing System components and chassis layout
 - 2.2 Describe the Cisco Unified Computing System LED
 - 2.3 Describe the UCS C-series rack mount servers components and chassis layout
 - 2.4 Describe the Cisco Nexus 2000 series fabric extender components

- 2.5 Identify Cisco Nexus 2000 series fabric extender cabling types
 - 2.6 Describe the Cisco Nexus 5000 series switch components
 - 2.7 Describe the Cisco Nexus 7000 series switch components
 - 2.8 Describe the Cisco MDS 9000 product family components
 - 2.9 Identifying the MDS 9000 Family Storage networking modules
 - 2.10 Identify Cisco products by logo marking and model number (including, but not limited to locations on chassis, line card, module, or adapter)
 - 2.11 Identify and locate the serial number of Cisco products (including but not limited to locations on chassis, line card, module, or adapter)
- 25%**
- 3.0 Describe Cisco NX-OS Software Operation**
 - 3.1 Describe the Cisco Integrated Management Controller (CIMC)
 - 3.2 Describe features and functionality of UCS Manager
 - 3.3 Describe the different command modes for Cisco NX-OS software
 - 3.4 Determine the current mode of the device
 - 3.5 Know how to export technical support data
 - 3.6 Verify the device configuration
 - 3.7 Know how to use and interpret the basic Cisco NX-OS commands
 - 3.8 Identify a configuration file from a Cisco device
 - 3.9 Using the device file systems, directories, and files
 - 3.10 Perform password recovery on a Cisco NX-OS switch device
- 33%**
- 4.0 Service-Related Knowledge**
 - 4.1 Make a physical connection from laptop to Cisco console port
 - 4.2 Perform installation process steps and expected outcomes
 - 4.3 Perform initial setup tasks
 - 4.4 Service restoration verification
 - 4.5 Perform remedial procedures on Cisco devices
 - 4.6 Use the hardware tools needed for repair
 - 4.7 Upgrade the BIOS on a UCS Server Blade with the GUI
 - 4.8 Upgrade Cisco Integrated Management Controller firmware on a UCS Server C-Series