



Course Outline for Network+ (N10-008) CertMaster Learn, Student Guide and CertMaster Labs

Course Outline	CertMaster Learn	Student Guide eBook	CertMaster Labs
Overview	Each of the bulleted activities below is a separate study task within the CertMaster Learn learning plan. Students are encouraged to complete a certain number of tasks in each login session based on their desired course completion date.	Review Activities are embedded within the eBook. Videos and Practice Questions are found in the CompTIA Learning Center, the platform through which the eBook is delivered.	Labs are available at the course level or integrated as study tasks within CertMaster Learn.
Lesson 1: Comparing OSI Model Network Functions			
Topic 1A: Compare and Contrast OSI Model Layers <i>Exam objectives covered:</i> 1.1 Compare and contrast the Open Systems Interconnection (OSI) model layers and encapsulation concepts.	<ul style="list-style-type: none"> Review Activity: OSI Model Layers PBQ: Compare and Contrast OSI Model Layers 	<ul style="list-style-type: none"> Review Activity: OSI Model Layers 	
Topic 1B: Configure SOHO Networks <i>Exam objectives covered:</i> 1.1 Compare and contrast the Open Systems Interconnection (OSI) model layers and encapsulation concepts.	<ul style="list-style-type: none"> Review Activity: SOHO Networks 	<ul style="list-style-type: none"> Review Activity: SOHO Networks 	
	<ul style="list-style-type: none"> Lesson 1: Practice Questions 	<ul style="list-style-type: none"> Lesson 1: Practice Questions 	<ul style="list-style-type: none"> Assisted Lab: Exploring the Lab Environment

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			<ul style="list-style-type: none"> Assisted Lab: Configure a SOHO Router
Lesson 2: Deploying Ethernet Cabling			
<p>Topic 2A: Summarize Ethernet Standards</p> <p><i>Exam objectives covered:</i></p> <p>1.3 Summarize the types of cables and connectors and explain which is the appropriate type for a solution.</p> <p>2.3 Given a scenario, configure and deploy common Ethernet switching features. (CSMA/CD only)</p>	<ul style="list-style-type: none"> Review Activity: Ethernet Standards 	<ul style="list-style-type: none"> Review Activity: Ethernet Standards 	
<p>Topic 2B: Summarize Copper Cabling Types</p> <p><i>Exam objectives covered:</i></p> <p>1.3 Summarize the types of cables and connectors and explain which is the appropriate type for a solution.</p>	<ul style="list-style-type: none"> Review Activity: Copper Cabling Types 	<ul style="list-style-type: none"> Review Activity: Copper Cabling Types 	
<p>Topic 2C: Summarize Fiber Optic Cabling Types</p> <p><i>Exam objectives covered:</i></p> <p>1.3 Summarize the types of cables and connectors and explain which is the appropriate type for a solution.</p>	<ul style="list-style-type: none"> Review Activity: Fiber Optic Cabling Types 	<ul style="list-style-type: none"> Review Activity: Fiber Optic Cabling Types 	

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<p>Topic 2D: Deploy Ethernet Cabling</p> <p><i>Exam objectives covered:</i></p> <p><i>1.3 Summarize the types of cables and connectors and explain which is the appropriate type for a solution.</i></p> <p><i>5.2 Given a scenario, troubleshoot common cable connectivity issues and select the appropriate tools.</i></p>	<ul style="list-style-type: none"> • Review Activity: Ethernet Cabling • PBQ: Deploy and Terminate Ethernet Cabling 	<ul style="list-style-type: none"> • Review Activity: Ethernet Cabling 	
	<ul style="list-style-type: none"> • Lesson 2: Practice Questions 	<ul style="list-style-type: none"> • Lesson 2: Practice Questions 	
<p>Lesson 3: Deploying Ethernet Switching</p>			
<p>Topic 3A: Deploy Networking Devices</p> <p><i>Exam objectives covered:</i></p> <p><i>2.1 Compare and contrast various devices, their features, and their appropriate placement on the network.</i></p>	<ul style="list-style-type: none"> • Review Activity: Networking Devices • PBQ: Deploying Networking Devices 	<ul style="list-style-type: none"> • Review Activity: Networking Devices 	
<p>Topic 3B: Explain Network Interfaces</p> <p><i>Exam objectives covered:</i></p> <p><i>1.1 Compare and contrast the Open Systems Interconnection (OSI) model layers and encapsulation concepts.</i></p>	<ul style="list-style-type: none"> • Review Activity: Network Interfaces 	<ul style="list-style-type: none"> • Review Activity: Network Interfaces 	

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<p>5.2 Given a scenario, troubleshoot common cable connectivity issues and select the appropriate tools. (Tap only)</p> <p>5.3 Given a scenario, use the appropriate network software tools and commands. (tcpdump only)</p>			
<p>Topic 3C: Deploy Common Ethernet Switching Features</p> <p><i>Exam objectives covered:</i></p> <p>2.3 Given a scenario, configure and deploy common Ethernet switching features.</p> <p>5.3 Given a scenario, use the appropriate network software tools and commands.</p>	<ul style="list-style-type: none"> • Video: Configuring and Deploying Common Ethernet Switching Features • Review Activity: Common Ethernet Switching Features 	<ul style="list-style-type: none"> • Video: Configuring and Deploying Common Ethernet Switching Features • Review Activity: Common Ethernet Switching Features 	
	<ul style="list-style-type: none"> • Lesson 3: Practice Questions 	<ul style="list-style-type: none"> • Lesson 3: Practice Questions 	<ul style="list-style-type: none"> • Assisted Lab: Capture Network Traffic • Assisted Lab: Configure Interface Settings
<p>Lesson 4: Troubleshooting Ethernet Networks</p>			
<p>Topic 4A: Explain Network Troubleshooting Methodology</p> <p><i>Exam objectives covered:</i></p> <p>5.1 Explain the network troubleshooting methodology.</p>	<ul style="list-style-type: none"> • Review Activity: Network Troubleshooting Methodology • PBQ: Network Troubleshooting Methodology 	<ul style="list-style-type: none"> • Review Activity: Network Troubleshooting Methodology 	

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<p>Topic 4B: Troubleshoot Common Cable Connectivity Issues</p> <p><i>Exam objectives covered:</i> 5.2 Given a scenario, troubleshoot common cable connectivity issues and select the appropriate tools.</p>	<ul style="list-style-type: none"> • Video: Troubleshooting Common Cable Connectivity Issues • Review Activity: Common Cable Connectivity Issues 	<ul style="list-style-type: none"> • Video: Troubleshooting Common Cable Connectivity Issues • Review Activity: Common Cable Connectivity Issues 	
	<ul style="list-style-type: none"> • Lesson 4: Practice Questions 	<ul style="list-style-type: none"> • Lesson 4: Practice Questions 	
<p>Lesson 5: Explaining IPv4 Addressing</p>			
<p>Topic 5A: D Explain IPv4 Addressing Schemes</p> <p><i>Exam objectives covered:</i> 1.1 Compare and contrast the Open Systems Interconnection (OSI) model layers and encapsulation concepts. (IP header only)</p> <p>1.5 Explain common ports and protocols, their application, and encrypted alternatives. (IP protocol types only)</p>	<ul style="list-style-type: none"> • Review Activity: IPv4 Addressing Schemes 	<ul style="list-style-type: none"> • Review Activity: IPv4 Addressing Schemes 	
<p>Topic 5B: Explain IPv4 Forwarding</p> <p><i>Exam objectives covered:</i> 1.4 Given a scenario, configure a subnet</p>	<ul style="list-style-type: none"> • Review Activity: IPv4 Forwarding 	<ul style="list-style-type: none"> • Review Activity: IPv4 Forwarding 	

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<i>and use appropriate IP addressing schemes.</i>			
<p>Topic 5C: Configure IP Networks and Subnets</p> <p><i>Exam objectives covered:</i> 1.4 Given a scenario, configure a subnet and use appropriate IP addressing schemes.</p>	<ul style="list-style-type: none"> • Video: Configuring a Subnet and Using Appropriate IP Addressing Schemes • Review Activity: IP Networks and Subnets Configurations • Review Activity: Design an IP Subnet • PBQ: Configure IP Networks and Subnets 	<ul style="list-style-type: none"> • Video: Configuring a Subnet and Using Appropriate IP Addressing Schemes • Review Activity: IP Networks and Subnets Configurations • Review Activity: Design an IP Subnet 	
	<ul style="list-style-type: none"> • Lesson 5: Practice Questions 	<ul style="list-style-type: none"> • Lesson 5: Practice Questions 	<ul style="list-style-type: none"> • Assisted Lab: Configure IPv4 Static Addressing • Assisted Lab: Analyze ARP Traffic
Lesson 6: Supporting IPv4 and IPv6 Networks			
<p>Topic 6A: Use Appropriate Tools to Test IP Configuration</p> <p><i>Exam objectives covered:</i> 1.5 Explain common ports and protocols, their application, and encrypted alternatives. (ICMP only)</p> <p>5.3 Given a scenario, use the appropriate network software tools and commands.</p>	<ul style="list-style-type: none"> • Video: Using the Appropriate Network Software Tools and Commands • Review Activity: Test IP Configuration • PBQ: Use Appropriate Tools to Test IP Configuration 	<ul style="list-style-type: none"> • Video: Using the Appropriate Network Software Tools and Commands • Review Activity: Test IP Configuration 	
Topic 6B: Troubleshoot IP Networks	<ul style="list-style-type: none"> • Review Activity: Troubleshoot IP Networks 	<ul style="list-style-type: none"> • Review Activity: Troubleshoot IP Networks 	

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<p><i>Exam objectives covered:</i></p> <p>5.5 Given a scenario, troubleshoot general networking issues.</p>	<ul style="list-style-type: none"> PBQ: Troubleshoot IP Networks 		
<p>Topic 6C: Explain IPv6 Addressing Schemes</p> <p><i>Exam objectives covered: 1.4 Given a scenario, configure a subnet and use appropriate IP addressing schemes.</i></p> <p>2.3 Given a scenario, configure and deploy common Ethernet switching features. (ND protocol only)</p>	<ul style="list-style-type: none"> Review Activity: IPv6 Addressing Schemes 	<ul style="list-style-type: none"> Review Activity: IPv6 Addressing Schemes 	
	<ul style="list-style-type: none"> Lesson 6: Practice Questions 	<ul style="list-style-type: none"> Lesson 6: Practice Questions 	<ul style="list-style-type: none"> Assisted Lab: Use Tools to Test IP Configuration Assisted Lab: Configure IPv6 Static Addressing
Lesson 7: Configuring and Troubleshooting Routers			
<p>Topic 7A: Compare and Contrast Routing Concepts</p> <p><i>Exam objectives covered:</i></p> <p>2.2 Compare and contrast routing technologies and bandwidth management concepts.</p>	<ul style="list-style-type: none"> Review Activity: Routing Concepts 	<ul style="list-style-type: none"> Review Activity: Routing Concepts 	
<p>Topic 7B: Compare and Contrast Dynamic Routing Concepts</p>	<ul style="list-style-type: none"> Review Activity: Dynamic Routing Concepts 	<ul style="list-style-type: none"> Review Activity: Dynamic Routing Concepts 	

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<p><i>Exam objectives covered:</i></p> <p><i>1.4 Given a scenario, configure a subnet and use appropriate IP addressing schemes.</i></p> <p><i>2.2 Compare and contrast routing technologies and bandwidth management concepts.</i></p>	<ul style="list-style-type: none"> • Review Activity: Design VLSM Subnets 	<ul style="list-style-type: none"> • Review Activity: Design VLSM Subnets 	
<p>Topic 7C: Install and Troubleshoot Routers</p> <p><i>Exam objectives covered:</i></p> <p><i>1.4 Given a scenario, configure a subnet and use appropriate IP addressing schemes. (Subinterfaces only)</i></p> <p><i>2.1 Compare and contrast various devices, their features, and their appropriate placement on the network.</i></p> <p><i>5.3 Given a scenario, use the appropriate network software tools and commands.</i></p> <p><i>5.5 Given a scenario, troubleshoot general networking issues.</i></p>	<ul style="list-style-type: none"> • Video: Troubleshooting General Networking Issues • Review Activity: Router Installation and Troubleshooting • Review Activity: Design a Branch Office Internetwork • PBQ: Install and Troubleshoot Routers 	<ul style="list-style-type: none"> • Video: Troubleshooting General Networking Issues • Review Activity: Router Installation and Troubleshooting • Review Activity: Design a Branch Office Internetwork 	
	<ul style="list-style-type: none"> • Lesson 7: Practice Questions 	<ul style="list-style-type: none"> • Lesson 7: Practice Questions 	<ul style="list-style-type: none"> • Assisted Lab: Configure Static Routing • Assisted Lab: Configure Dynamic Routing

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Lesson 8: Explaining Network Topologies and Types			
<p>Topic 8A: Explain Network Types and Characteristics</p> <p><i>Exam objectives covered:</i> 1.2 Explain the characteristics of network topologies and network types.</p>	<ul style="list-style-type: none"> Review Activity: Network Types and Characteristics 	<ul style="list-style-type: none"> Review Activity: Network Types and Characteristics 	
<p>Topic 8B: Explain Tiered Switching Architecture</p> <p><i>Exam objectives covered:</i> 1.7 Explain basic corporate and datacenter network architecture.</p> <p>2.3 Given a scenario, configure and deploy common Ethernet switching features. (STP only)</p> <p>5.5 Given a scenario, troubleshoot general networking issues.</p>	<ul style="list-style-type: none"> Review Activity: Tiered Switching Architecture 	<ul style="list-style-type: none"> Review Activity: Tiered Switching Architecture 	
<p>Topic 8C: Explain Virtual LANs</p> <p><i>Exam objectives covered:</i> 2.3 Given a scenario, configure and deploy common Ethernet switching features.</p>	<ul style="list-style-type: none"> Review Activity: Virtual LANs PBQ: Explain Virtual LANs 	<ul style="list-style-type: none"> Review Activity: Virtual LANs 	
	<ul style="list-style-type: none"> Lesson 8: Practice Questions 	<ul style="list-style-type: none"> Lesson 8: Practice Questions 	<ul style="list-style-type: none"> APPLIED LAB: Troubleshoot IP Networks

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Lesson 9: Explaining Transport Layer Protocols			
<p>Topic 9A: Compare and Contrast Transport Protocols</p> <p><i>Exam objectives covered:</i></p> <p><i>1.1 Compare and contrast the Open Systems Interconnection (OSI) model layers and encapsulation concepts.</i></p> <p><i>1.5 Explain common ports and protocols, their application, and encrypted alternatives.</i></p>	<ul style="list-style-type: none"> Review Activity: Transport Protocols 	<p>Review Activity: Transport Protocols</p>	
<p>Topic 9B: Use Appropriate Tools to Scan Network Ports</p> <p><i>Exam objectives covered:</i></p> <p><i>5.3 Given a scenario, use the appropriate network software tools and commands.</i></p>	<ul style="list-style-type: none"> Review Activity: Port Scanning 	<ul style="list-style-type: none"> Review Activity: Port Scanning 	
	<ul style="list-style-type: none"> Lesson 9: Practice Questions 	<ul style="list-style-type: none"> Lesson 9: Practice Questions 	<ul style="list-style-type: none"> Assisted Lab: Use Network Scanners
Lesson 10: Explaining Network Services			
<p>Topic 10A: Explain the Use of Network Addressing Services</p> <p><i>Exam objectives covered:</i></p> <p><i>1.5 Explain common ports and protocols, their application, and encrypted</i></p>	<ul style="list-style-type: none"> Review Activity: Network Addressing Services 	<ul style="list-style-type: none"> Review Activity: Network Addressing Services 	

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<p><i>alternatives. (DHCP only)</i></p> <p><i>1.6 Explain the use and purpose of network services.</i></p>			
<p>Topic 10B: Explain the Use of Name Resolution Services</p> <p><i>Exam objectives covered:</i></p> <p><i>1.5 Explain common ports and protocols, their application, and encrypted alternatives. (DNS only)</i></p> <p><i>1.6 Explain the use and purpose of network services.</i></p>	<ul style="list-style-type: none"> Review Activity: Name Resolution Services 	<ul style="list-style-type: none"> Review Activity: Name Resolution Services 	
<p>Topic 10C: Configure DNS Services</p> <p><i>Exam objectives covered:</i></p> <p><i>1.6 Explain the use and purpose of network services.</i></p> <p><i>5.3 Given a scenario, use the appropriate network software tools and commands.</i></p>	<ul style="list-style-type: none"> Review Activity: DNS Services PBQ: Configure DNS Services 	<ul style="list-style-type: none"> Review Activity: DNS Services 	
	<ul style="list-style-type: none"> Lesson 10: Practice Questions 	<ul style="list-style-type: none"> Lesson 10: Practice Questions 	<ul style="list-style-type: none"> Assisted Lab: Analyze a DHCP Server Configuration Assisted Lab: Analyze a DNS Server Configuration
<p>Lesson 11: Explaining Network Applications</p>			
<p>Topic 11A: Explain the Use of Web, File/Print, and Database Services</p>	<ul style="list-style-type: none"> Review Activity: Review Activity: Use 	<ul style="list-style-type: none"> Review Activity: Review Activity: Use of Web, 	

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<p><i>Exam objectives covered:</i></p> <p><i>1.5 Explain common ports and protocols, their application, and encrypted alternatives.</i></p> <p><i>2.1 Compare and contrast various devices, their features, and their appropriate placement on the network. (Printer only)</i></p> <p><i>5.3 Given a scenario, use the appropriate network software tools and commands. (TFTP server only)</i></p>	<p>of Web, File/Print, and Database Services</p>	<p>File/Print, and Database Services</p>	
<p>Topic 11B: Explain the Use of Email and Voice Services</p> <p><i>Exam objectives covered:</i></p> <p><i>1.5 Explain common ports and protocols, their application, and encrypted alternatives.</i></p> <p><i>2.1 Compare and contrast various devices, their features, and their appropriate placement on the network.</i></p>	<ul style="list-style-type: none"> • Review Activity: Use of Email and Voice Services • PBQ: Explain the Use of Email and Voice Services 	<ul style="list-style-type: none"> • Review Activity: Use of Email and Voice Services 	
	<ul style="list-style-type: none"> • Lesson 11: Practice Questions 	<ul style="list-style-type: none"> • Lesson 11: Practice Questions 	<ul style="list-style-type: none"> • Assisted Lab: Analyze Application Security Configurations
<p>Lesson 12: Ensuring Network Availability</p>			

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<p>Topic 12A: Explain the Use of Network Management Services</p> <p><i>Exam objectives covered:</i></p> <p>1.5 Explain common ports and protocols, their application, and encrypted alternatives.</p> <p>1.6 Explain the use and purpose of network services.</p> <p>5.3 Given a scenario, use the appropriate network software tools and commands.</p>	<ul style="list-style-type: none"> • Review Activity: Network Management Services • PBQ: Explain the Use of Network Management Services 	<ul style="list-style-type: none"> • Review Activity: Network Management Services 	
<p>Topic 12B: Use Event Management to Ensure Network Availability</p> <p><i>Exam objectives covered:</i></p> <p>1.5 Explain common ports and protocols, their application, and encrypted alternatives.</p> <p>3.1 Given a scenario, use the appropriate statistics and sensors to ensure network availability.</p>	<ul style="list-style-type: none"> • Review Activity: Ensure Network Availability with Event Management • PBQ: Use Event Management to Ensure Network Availability 	<ul style="list-style-type: none"> • Review Activity: Ensure Network Availability with Event Management 	
<p>Topic 12C: Use Performance Metrics to Ensure Network Availability</p> <p><i>Exam objectives covered:</i></p>	<ul style="list-style-type: none"> • Video: Using the Appropriate Statistics and Sensors to Ensure Network Availability • Review Activity: Ensure Network 	<ul style="list-style-type: none"> • Video: Using the Appropriate Statistics and Sensors to Ensure Network Availability • Review Activity: Ensure Network Availability 	

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<p><i>2.2 Compare and contrast routing technologies and bandwidth management concepts.</i></p> <p><i>3.1 Given a scenario, use the appropriate statistics and sensors to ensure network availability.</i></p> <p><i>5.3 Given a scenario, use the appropriate network software tools and commands.</i></p>	<p>Availability with Performance Metrics</p>	<p>with Performance Metrics</p>	
	<ul style="list-style-type: none"> Lesson 12: Practice Questions 	<ul style="list-style-type: none"> Lesson 12: Practice Questions 	<ul style="list-style-type: none"> Assisted Lab: Configure Secure Access Channels Assisted Lab: Configure SNMP and Syslog Collection Assisted Lab: Analyze Network Performance APPLIED LAB: Verify Service and Application Configuration
<p>Lesson 13: Explaining Common Security Concepts</p>			
<p>Topic 13A: Explain Common Security Concepts</p> <p><i>Exam objectives covered:</i></p> <p><i>4.1 Explain common security concepts.</i></p>	<ul style="list-style-type: none"> Review Activity: Common Security Concepts 	<ul style="list-style-type: none"> Review Activity: Common Security Concepts 	
<p>Topic 13B: Explain Authentication Methods</p> <p><i>Exam objectives covered:</i></p>	<ul style="list-style-type: none"> Review Activity: Authentication Methods 	<ul style="list-style-type: none"> Review Activity: Authentication Methods 	

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<p><i>1.5 Explain common ports and protocols, their application, and encrypted alternatives.</i></p> <p><i>4.1 Explain common security concepts.</i></p>			
	<ul style="list-style-type: none"> Lesson 13: Practice Questions 	<ul style="list-style-type: none"> Lesson 13: Practice Questions 	
<p>Lesson 14: Supporting and Troubleshooting Secure Networks</p>			
<p>Topic 14A: Compare and Contrast Security Appliances</p> <p><i>Exam objectives covered:</i></p> <p><i>1.4 Given a scenario, configure a subnet and use appropriate IP addressing schemes.</i></p> <p><i>2.1 Compare and contrast various devices, their features, and their appropriate placement on the network.</i></p> <p><i>4.1 Explain common security concepts.</i></p>	<ul style="list-style-type: none"> Review Activity: Security Appliances PBQ: Compare and Contrast Security Appliances 	<ul style="list-style-type: none"> Review Activity: Security Appliances 	
<p>Topic 14B: Troubleshoot Service and Security Issues</p> <p><i>Exam objectives covered:</i></p> <p><i>5.5 Given a scenario, troubleshoot general networking issues.</i></p>	<ul style="list-style-type: none"> Review Activity: Service and Security Issues Review Activity: Scenarios in Service and Security Issues 	<ul style="list-style-type: none"> Review Activity: Service and Security Issues Review Activity: Scenarios in Service and Security Issues 	
	<ul style="list-style-type: none"> Lesson 14: Practice Questions 	<ul style="list-style-type: none"> Lesson 14: Practice Questions 	<ul style="list-style-type: none"> Assisted Lab: Configure a NAT Firewall

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Lesson 15: Deploying and Troubleshooting Wireless Networks			
<p>Topic 15A: Summarize Wireless Standards</p> <p><i>Exam objectives covered:</i> 2.4 Given a scenario, install and configure the appropriate wireless standards and technologies.</p>	<ul style="list-style-type: none"> Review Activity: Wireless Standards 	<ul style="list-style-type: none"> Review Activity: Wireless Standards 	
<p>Topic 15B: Install Wireless Networks</p> <p><i>Exam objectives covered:</i> 2.1 Compare and contrast various devices, their features, and their appropriate placement on the network.</p> <p>2.4 Given a scenario, install and configure the appropriate wireless standards and technologies.</p>	<ul style="list-style-type: none"> Video: Installing and Configuring the Appropriate Wireless Standards and Technologies Review Activity: Wireless Network Installation 	<ul style="list-style-type: none"> Video: Installing and Configuring the Appropriate Wireless Standards and Technologies Review Activity: Wireless Network Installation 	
<p>Topic 15C: Troubleshoot Wireless Networks</p> <p><i>Exam objectives covered:</i> 2.4 Given a scenario, install and configure the appropriate wireless standards and technologies.</p> <p>5.3 Given a scenario, use the appropriate network software tools and commands.</p>	<ul style="list-style-type: none"> Video: Troubleshooting Common Wireless Connectivity Issues Review Activity: Wireless Network Troubleshooting 	<ul style="list-style-type: none"> Video: Troubleshooting Common Wireless Connectivity Issues Review Activity: Wireless Network Troubleshooting 	

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<p>5.4 Given a scenario, troubleshoot common wireless connectivity issues.</p>			
<p>Topic 15D: Configure and Troubleshoot Wireless Security</p> <p><i>Exam objectives covered:</i></p> <p>2.4 Given a scenario, install and configure the appropriate wireless standards and technologies.</p> <p>5.4 Given a scenario, troubleshoot common wireless connectivity issues.</p>	<ul style="list-style-type: none"> Review Activity: Wireless Security Configuration and Troubleshooting 	<ul style="list-style-type: none"> Review Activity: Wireless Security Configuration and Troubleshooting 	
	<ul style="list-style-type: none"> Lesson 15: Practice Questions 	<ul style="list-style-type: none"> Lesson 15: Practice Questions 	
<p>Lesson 16: Comparing WAN Links and Remote Access Methods</p>			
<p>Topic 16A: Explain WAN Provider Links</p> <p><i>Exam objectives covered:</i></p> <p>1.2 Explain the characteristics of network topologies and network types.</p> <p>2.1 Compare and contrast various devices, their features, and their appropriate placement on the network.</p>	<ul style="list-style-type: none"> Review Activity: Explain WAN Provider Links 	<ul style="list-style-type: none"> Review Activity: Explain WAN Provider Links 	
<p>Topic 16B: Compare and Contrast Remote Access Methods</p>	<ul style="list-style-type: none"> Review Activity: Remote Access Methods 	<ul style="list-style-type: none"> Review Activity: Remote Access Methods 	

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<p><i>Exam objectives covered:</i></p> <p><i>1.5 Explain common ports and protocols, their application, and encrypted alternatives.</i></p> <p><i>2.1 Compare and contrast various devices, their features, and their appropriate placement on the network. (VPN headend only)</i></p> <p><i>4.4 Compare and contrast remote access methods and security implications.</i></p>	<ul style="list-style-type: none"> PBQ: Compare and Contrast Remote Access Methods 		
	<ul style="list-style-type: none"> Lesson 16: Practice Questions 	<ul style="list-style-type: none"> Lesson 16: Practice Questions 	<ul style="list-style-type: none"> Assisted Lab: Configure Remote Access APPLIED LAB: Troubleshoot Service and Security Issues
<p>Lesson 17: Explaining Organizational and Physical Security Concepts</p>			
<p>Topic 17A: Explain Organizational Documentation and Policies</p> <p><i>Exam objectives covered:</i></p> <p><i>3.2 Explain the purpose of organizational documents and policies.</i></p>	<ul style="list-style-type: none"> Review Activity: Organizational Documentation and Policies 	<ul style="list-style-type: none"> Review Activity: Organizational Documentation and Policies 	
<p>Topic 17B: Explain Physical Security Methods</p>	<ul style="list-style-type: none"> Review Activity: Physical Security Methods 	<ul style="list-style-type: none"> Review Activity: Physical Security Methods 	

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<p><i>Exam objectives covered:</i> 4.5 Explain the importance of physical security.</p>			
<p>Topic 17C: Compare and Contrast Internet of Things Devices</p> <p><i>Exam objectives covered:</i> 2.1 Compare and contrast various devices, their features, and their appropriate placement on the network.</p>	<ul style="list-style-type: none"> Review Activity: Internet of Things Devices 	<ul style="list-style-type: none"> Review Activity: Internet of Things Devices 	
	<ul style="list-style-type: none"> Lesson 17: Practice Questions 	<ul style="list-style-type: none"> Lesson 17: Practice Questions 	<ul style="list-style-type: none"> Assisted Lab: Develop Network Documentation
<p>Lesson 18: Explaining Disaster Recovery and High Availability Concepts</p>			
<p>Topic 18A: Explain Disaster Recovery Concepts</p> <p><i>Exam objectives covered:</i> 3.3 Explain high availability and disaster recovery concepts and summarize which is the best solution.</p>	<ul style="list-style-type: none"> Review Activity: Disaster Recovery Concepts 	<ul style="list-style-type: none"> Review Activity: Disaster Recovery Concepts 	
<p>Topic 18B: Explain High Availability Concepts</p> <p><i>Exam objectives covered:</i> 1.4 Given a scenario, configure a subnet and use appropriate IP</p>	<ul style="list-style-type: none"> Review Activity: High Availability Concepts PBQ: Explain High Availability Concepts 	<ul style="list-style-type: none"> Review Activity: High Availability Concepts 	

Course Outline	CertMaster Learn	Student Guide eBook	CertMaster Labs
<p>addressing schemes. (Virtual IP only)</p> <p>2.1 Compare and contrast various devices, their features, and their appropriate placement on the network. (Load Balancer only)</p> <p>3.3 Explain high availability and disaster recovery concepts and summarize which is the best solution.</p>			
	<ul style="list-style-type: none"> Lesson 18: Practice Questions 	<ul style="list-style-type: none"> Lesson 18: Practice Questions 	<ul style="list-style-type: none"> Assisted Lab: Backup and Restore Network Device Configuration
<p>Lesson 19: Applying Network Hardening Techniques</p>			
<p>Topic 19A: Compare and Contrast Types of Attacks</p> <p><i>Exam objectives covered:</i> 4.2 Compare and contrast common types of attacks.</p>	<ul style="list-style-type: none"> Review Activity: Types of Attacks PBQ: Compare and Contrast Types of Attacks 	<ul style="list-style-type: none"> Review Activity: Types of Attacks 	
<p>Topic 19B: Apply Network Hardening Techniques</p> <p><i>Exam objectives covered:</i> 4.3 Given a scenario, apply network hardening techniques.</p>	<ul style="list-style-type: none"> Video: Applying Network Hardening Techniques Review Activity: Network Hardening Techniques 	<ul style="list-style-type: none"> Video: Applying Network Hardening Techniques Review Activity: Network Hardening Techniques 	
	<ul style="list-style-type: none"> Lesson 19: Practice Questions 	<ul style="list-style-type: none"> Lesson 19: Practice Questions 	<ul style="list-style-type: none"> Assisted Lab: Analyze an On-path Attack Assisted Lab: Configure Port Security

Course Outline	CertMaster Learn	Student Guide eBook	CertMaster Labs
Lesson 20: Summarizing Cloud and Datacenter Architecture			
<p>Topic 20A: Summarize Cloud Concepts</p> <p><i>Exam objectives covered:</i> 1.8 Summarize cloud concepts and connectivity options.</p>	<ul style="list-style-type: none"> Review Activity: Cloud Concepts 	<ul style="list-style-type: none"> Review Activity: Cloud Concepts 	
<p>Topic 20B: Explain Virtualization and Storage Area Network Technologies</p> <p><i>Exam objectives covered:</i> 1.2 Explain the characteristics of network topologies and network types. 1.7 Explain basic corporate and datacenter network architecture.</p>	<ul style="list-style-type: none"> Review Activity: Virtualization and Storage Area Network Technologies 	<ul style="list-style-type: none"> Review Activity: Virtualization and Storage Area Network Technologies 	
<p>Topic 20C: Explain Datacenter Network Architecture</p> <p><i>Exam objectives covered:</i> 1.2 Explain the characteristics of network topologies and network types. 1.7 Explain basic corporate and datacenter network architecture.</p>	<ul style="list-style-type: none"> Review Activity: Datacenter Network Architecture PBQ: Explain Datacenter Network Architecture 	<ul style="list-style-type: none"> Review Activity: Datacenter Network Architecture 	
	<ul style="list-style-type: none"> Lesson 20: Practice Questions 	<ul style="list-style-type: none"> Lesson 20: Practice Questions 	
	<ul style="list-style-type: none"> Final Assessment 	<ul style="list-style-type: none"> Final Assessment 	

Course Outline	CertMaster Learn	Student Guide eBook	CertMaster Labs
	<ul style="list-style-type: none"> Strengths and Weaknesses Dashboard Flashcards Game Center 	<ul style="list-style-type: none"> Strengths and Weaknesses Dashboard 	
Student Resources	<ul style="list-style-type: none"> Mapping Course Content to CompTIA Network+ N10-008 (pdf) 	<ul style="list-style-type: none"> Mapping Course Content to CompTIA Network+ N10-008 (pdf) 	
Instructor Resources	<ul style="list-style-type: none"> Presentation Planner for Network+ N10-008 (xlsx) Transition Guide for Official CompTIA Network+ Exam N10-007 to Official CompTIA Network+ N10-008 (pdf) Onboarding Guide for Official CompTIA Network+ N10-008 Content (pdf) Mapping Course Content to CompTIA Network+ N10-008 (pdf) Instructor PowerPoint Presentations for Network+ N10-008 (zip) 	<ul style="list-style-type: none"> Presentation Planner for Network+ N10-008 (xlsx) Transition Guide for Official CompTIA Network+ Exam N10-007 to Official CompTIA Network+ N10-008 (pdf) Onboarding Guide for Official CompTIA Network+ N10-008 Content (pdf) Mapping Course Content to CompTIA Network+ N10-008 (pdf) Instructor PowerPoint Presentations for Network+ N10-008 (zip) 	



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