

2019-2020 Assessment Cycle

Learning Objective/Outcome

Cybersecurity, virtualization, & networking

Learning Outcome

Learning Outcome	Mapping
Demonstrate Computer Principles Identify physical and equipment safety, understand storage methods, understand computer memory, demonstrate use of eSAT, Bluetooth, and USB, identify different types and standards of processors.	No Mapping
Network Connections Demonstrate an understanding of NICs, identify different physical and logical characteristics of network connections, demonstrate use of remote access, and understand all types of wired and wireless communications.	No Mapping
Physical connection types Identify cable components and uses and demonstrate an understanding of signal characteristics and transmission among various media types.	No Mapping
Network standards and devices Understand OSI model layers, familiarity with TCP/IP model, identify IEEE, EIA/TIA standards, and common Port numbers, and distinguish various types and uses of network devices.	No Mapping
Network Troubleshooting Utilize ping, ipconfig, tracert, and netstat commands, utilize a CLI, maintain and troubleshoot cabling, perform local and remote loopback.	No Mapping

Routing and Switching
Explain the difference between static, dynamic, default, and gateway routes, recognize basic router operations and configurations, implement switch operations and configurations, compare and contrast routed vs. routing protocols.

No Mapping

Implement Communication Security Measures
Implement and document security measures on all communication systems, limit access to appropriate users, and understand Internet security.

No Mapping

Network terminology
Demonstrate knowledge of various protocols and architecture terminology, identify various network operation systems, identify various network types.

No Mapping

Network Architecture
Understand various network architectures and various LAN, MAN, and WAN topologies.

No Mapping

Network Addressing
Have knowledge of IP network addressing; differentiate between classful and classless IP addressing; understand Media Access Control addressing; convert binary, hexadecimal, and decimal numbers; create subnets from a network address.

No Mapping

Network planning and design
Demonstrate an understanding of analysis and planning concepts; compare and contrast principles of logical and physical design; install, maintain, and troubleshoot physical networks; describe various access methods; explain virtualization; and configure DHCP and DNS.

No Mapping

Computer Security

No Mapping

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