

1.0 Network Architecture

- Explain the functions and applications of various network devices.
- Compare and contrast the use of networking services and applications.
- Install and configure the following networking services/applications.
- Explain the characteristics and benefits of various WAN technologies.
- Install and properly terminate various cable types and connectors using appropriate tools
- Differentiate between common network topologies.
- Differentiate between network infrastructure implementations.
- Given a scenario, implement and configure the appropriate addressing schema.
- Identify the basics elements of unified communication technologies.
- Compare and contrast technologies that support cloud and virtualization
- Given a set of requirements, implement a basic network.

2.0 Network Operations

- Given a scenario, use appropriate monitoring tools.
- Given a scenario, analyze metrics and reports from monitoring and tracking performance tools.
- Given a scenario, use appropriate resources to support configuration management.
- Explain the importance of implementing network segmentation.
- Given a scenario, install and apply patches and updates.
- Given a scenario, configure a switch using proper features.
- Install and configure wireless LAN infrastructure and implement the appropriate technologies in support of wireless capable devices.

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3.0 Network Security

- Compare and contrast risk related concepts.
- Compare and contrast common network vulnerabilities and threats.
- Given a scenario, implement network hardening techniques.
- Compare and contrast physical security controls
- Given a scenario, install and configure a basic firewall.
- Explain the purpose of various network access control models.
- Summarize basic forensic concepts.

4.0 Troubleshooting

- Given a scenario, implement the following network troubleshooting methodology.
- Given a scenario, analyze and interpret the output of troubleshooting tools.
- Given a scenario, troubleshoot and resolve common wireless issues.
- Given a scenario, troubleshoot and resolve common copper cable issues.
- Given a scenario, troubleshoot and resolve common fiber cable issues.
- Given a scenario, troubleshoot and resolve common network issues.
- Given a scenario, troubleshoot and resolve common security issues.
- Given a scenario, troubleshoot and resolve common WAN issues.

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5.0 Industry Standards, Practices and Network Theory

- Analyze a scenario and determine the corresponding OSI layer.
- Explain the basics of network theory and concepts.
- Given a scenario, deploy the appropriate wireless standard.
- Given a scenario, deploy the appropriate wired connectivity standard.
- Given a scenario, implement the appropriate policies or procedures.
- Summarize safety practices.
- Given a scenario, install and configure equipment in the appropriate location using best practices.
- Explain the basics of change management procedures.
- Compare and contrast the following ports and protocols.
- Given a scenario, configure and apply the appropriate ports and protocols.