

NISGTC DOL Network+ Supported Labs

Lab	Title	Objective
1	The OSI Model	<ul style="list-style-type: none">• 1.1: Compare the layers of the OSI and TCP/IP models• 1.2: Classify how applications, devices and protocols relate to the OSI model
2	Types of Networks	<ul style="list-style-type: none">• 1.5: Identify common TCP and UDP default ports• 1.6: Explain the function of common networking protocols
3	TCP/IP Utilities	<ul style="list-style-type: none">• 1.5: Identify common TCP and UDP default ports• 1.6: Explain the function of common networking protocols• 1.7: Summarize DNS concepts and its components• 4.3: Given a scenario, use appropriate software tools to troubleshoot connectivity issues
4	IPv4 vs IPv6 – Calculating, Configuring and Testing	<ul style="list-style-type: none">• 1.5: Identify common TCP and UDP default ports• 1.6: Explain the function of common networking protocols• 1.7: Summarize DNS concepts and its components• 4.3: Given a scenario, use appropriate software tools to troubleshoot connectivity issues
5	TCP/IP Protocols – Other Key Protocols	<ul style="list-style-type: none">• 1.5: Identify common TCP and UDP default ports• 1.6: Explain the function of common networking protocols• 1.7: Summarize DNS concepts and its components• 2.3: Explain the purpose and properties of DHCP• 4.3: Given a scenario, use appropriate software tools to troubleshoot connectivity issues
6	Network Management	<ul style="list-style-type: none">• 4.2: Identify types of configuration management documentation: Baselines• 4.4: Conduct network monitoring to identify performance and connectivity issues

Lab	Title	Objective
7	Remote Access - RDP	<ul style="list-style-type: none"> • 6.6: Identify common security threats and mitigation techniques: Patches and Updates • 1.2: Classify how applications, devices and protocols relate to the OSI model • 1.5: Identify common TCP and UDP default ports • 5.2: Explain the methods of network access security • 5.5: Given a scenario, install and configure a basic firewall • 6.3: Explain the methods of network access security
9	Network Troubleshooting	<ul style="list-style-type: none"> • 1.7: Summarize DNS concepts and components • 1.8: Given a scenario, implement network troubleshooting methodology • 2.3: Explain the purpose and properties of DHCP • 4.3: Given a scenario, use appropriate software tools to troubleshoot connectivity
10	Network Security - Firewalls	<ul style="list-style-type: none"> • 5.5: Given a scenario, install and configure a basic firewall
11	Business Continuity - Disaster Recovery	<ul style="list-style-type: none"> • 5.4: Explain common threats, vulnerabilities, and mitigation techniques
12	TCP/IP Protocols - The Core Protocols	<ul style="list-style-type: none"> • 1.1: TCP/IP Model • 1.6: Explain the function of common networking protocols