

Internetworking

I. Explain common networking concepts and terminology.

Tasks Instructions:

Each number to the right refers to a single student/candidate (1-10). Place a check (✓) in the respective column for the appropriate student/candidate number (1-10) if the skills listed below are observed as stated. Leave blank if not observed. Student/candidate will only get credit for the skills they have demonstrated.

	1	2	3	4	5	6	7	8	9	10
Identify the basic characteristics of LANs and WANs										
Explain the concept of bandwidth and throughput and factors that affect them										
List and describe the components necessary to create a small LAN using wire or wireless media										
Identify the roles of various network devices in a network (NICs, hubs, switches, routers, firewalls, AP)										
Explain the concept of latency and how it can be minimized										
Describe the advantages and disadvantages associated with implementing common physical topologies: star/extended star, ring and mesh										
Explain the importance of implementing basic security in computer networks										
<i>Safety and infection control are adhered to during all aspects of this task.</i>										
<i>The student completed task within the time limited.</i>										
Points earned										
Total possible points (9)										

II. Install and troubleshoot basic hardware and software required to communicate in a simple network and test for connectivity.

Tasks Instructions:

Use advanced Telnet operations											
Troubleshoot IP address issues											
<i>Safety and infection control are adhered to during all aspects of this task.</i>											
<i>The student completed task within the time limited.</i>											
Points earned											
Total possible points (11)											

XIV. Manage the IOS software.

Tasks Instructions:

	1	2	3	4	5	6	7	8	9	10
Identify where a Cisco device locates and loads IOS										
Utilize the boot system command										
Configure the register										
Troubleshoot IOS boot failure										
Manage the Cisco file system										
Identify IOS naming conventions										
Utilize TFTP to manage and copy										
<i>Safety and infection control are adhered to during all aspects of this task.</i>										
<i>The student completed task within the time limited.</i>										
Points earned										
Total possible points (9)										

XV. Configure routing protocols.

Tasks Instructions:

	1	2	3	4	5	6	7	8	9	10
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Configure EIGRP summarization											
Verify basic EIGRP											
Troubleshoot EIGRP configuration											
<i>Safety and infection control are adhered to during all aspects of this task.</i>											
<i>The student completed task within the time limited.</i>											
Points earned											
Total possible points (7)											

XXV. Understand how switching operates switching concepts.

Tasks Instructions:

	1	2	3	4	5	6	7	8	9	10
Recognize Ethernet/802.3 LAN technologies										
Recognize factors that impact network performance										
Recognize network segmentation using hardware devices										
Recognize basic operations of a switch										
Compare Layer 2 and Layer 3 switching										
Compare symmetric and asymmetric switching										
Recognize micro segmentation implementation										
Recognize the effects switches have on a collision domain										
<i>Safety and infection control are adhered to during all aspects of this task.</i>										
<i>The student completed task within the time limited.</i>										
Points earned										
Total possible points (10)										

XXVI. Understand the use of the access, distribution and core layers in switching and routing.

Tasks Instructions:

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