

CoLAB TalentReady IT Pathways
Networking KSAs for Curriculum Alignment

1. Hardware

	KSA Description	Knowledge, Skill, or Ability?	Bloom's Taxonomy Level?	Cross-cutting KSAs	Notes
a	Explain basic cable types, features and their purposes.	Knowledge	2		
b	Explain the common cable network physical topology configurations (star, bus, ring, mesh, hybrid).	Knowledge	2		
c	Explain the difference between a hub, repeater, switch, and router (wired and wireless).	Knowledge	2		
d	Classify cable connections to various networking devices (RJ45, BNC, T-Connectors).	Knowledge	2		
e	Compare and contrast Internet connection types, network types and their features (e.g. T-Lines, fiber cables, microwaves, cellular, satellite) Layers 1 & 2.	Knowledge	2		
f	Identify network interface cards (NIC) (ethernet and token passing).	Knowledge	1		
g	Define a MAC address (physical address) (OU ID and Host ID).	Knowledge	2		
h	Explain the difference between a MAC address and an IP address.	Knowledge	3		
i	Configure routing settings (IP address, subnet mask).	Knowledge	2		
j	Explain a SSID.	Knowledge	2		
k	Explain and configure the routing interface via a web browser.	Knowledge	2		
l	Compare managed and unmanaged switches.	Knowledge	2		
m	Discuss a VLAN configuration.	Knowledge	2		
n	Construct a physical computer.	Ability	3		
o	Discuss the difference between serial ports and parallel ports.	Knowledge	3		
p	Interpret which hardware devices are serial devices and which hardware devices are parallel devices.	Knowledge	2		
q	Categorize secondary storage devices (Hard drives, CDs, BlueRay).	Knowledge	2		
r	Compare Hypervisor I and Hypervisor II virtual software.	Knowledge	2		
s	Install a hypervisor II and guest OS.	Ability	3		