

**CoLAB TalentReady IT Pathways
Cyber Technologist KSAs for Curriculum Alignment**

1. IT Fundamentals

	KSA Description	Knowledge, Skill, or Ability?	Bloom's Taxonomy Level?	Cross-cutting KSAs	Notes
a	Install and maintain operating systems (OSs).	Ability	2	Cyber Security Specialist 1a	
b	Understand basic programming constructs.	Knowledge	2		
c	Understand and apply basic scripting principles.	Knowledge	3		
d	Understand how to manage systems at an enterprise level.	Knowledge	2	Cyber Security Specialist 1b	
e	Ability to install and configure software.	Ability	3	Cyber Security Specialist 1c, Data Management 1s, Networking 5a, Software Development 1h	
f	Install and configure hardware.	Ability	3	Cyber Security Specialist 1d	
g	Identify and describe basic file types and demonstrate fundamental file management.	Skill	2	Cyber Security Specialist 1e, Data Management 1r, Networking 5f, Software Development 1k	
h	Apply networking fundamentals to infrastructure systems.	Skill	3		
i	Identify trending technologies, their fundamental architecture, and their value in the marketplace.	Knowledge	2	Cyber Security Specialist 1g	
j	Explain the fundamentals of delivering information and applications using web architecture.	Knowledge	2	Cyber Security Specialist 1h	
k	Explain and describe data encoding basics.	Knowledge	2	Cyber Security Specialist 1i	
l	Demonstrate current and emerging strategies and technologies used to collect, analyze, record, and share information in business operations.	Skill	3		