CoLAB TalentReady IT Pathways Cyber Technologist KSAs for Curriculum Alignment					
3. Vulnerabilities and Threats					
	KSA Description	Knowledge, Skill, or Ability?	Bloom's Taxonomy Level?	Cross-cutting KSAs	Notes
	Mitigate security threats (e.g., Adware, Viruses, Spyware, Trojan, Rootkits, Logic bomb, Botnets,				
а	Ransomware, Polymorphic malware) using tools.	Skill	4		
b	Use identification techniques and understand identification technolgies (IOCs).	Knowledge	3		
С	Demonstrate and recognize common cyber-attack mechanisms.	Skill	3		
d	Describe and discover vulnerabilities.	Knowledge	3		
	Mitigate network attacks. (e.g., Man-inthe-middle, DDoS, DoS, Replay, Smurf attack, Spoofing,				
e	Spam, Phishing, Spim, Spit and other attacks).	Ability	3	Cyber Specialist 2i	
	Configure defenses for Password attacks (e.g., Brute Force, Dictionary attacks, Hybrid, Birthday				
f	attacks, Rainbow tables).	Skill	3		
g	Describe attack techniques (cyber kill chain and its components).	Knowledge	2		
	Describe and understand Social Engineering attacks (e.g., Shoulder surfing, Dumpster diving,				
	Tailgating, Impersonation, Hoaxes, Phishing, Spear Phishing, Whaling, Vishing, Principles, URL				
h	hijacking, Watering Hole).	Knowledge	2	Cyber Specialist 2k	
i	Understand concepts and tools of penetration testing.	Knowledge	2	Cyber Specialist 2l	
	Identify threats using discovery tools and utilities-(e.g., Protocol analyzer, Vulnerability scanner,				
j	Honeypots, Honeynets, Port scanner).	Ability	3		