

SKILLS FRAMEWORK FOR INFOCOMM TECHNOLOGY SKILLS MAP – VULNERABILITY ASSESSMENT AND PENETRATION TESTING ANALYST							
Sector	Infocomm Technology						
Track	Cyber Security						
Sub-track	Vulnerability Assessment and Penetration Testing						
Occupation	ICT Security Specialist						
Job Role	Vulnerability Assessment and Penetration Testing Analyst						
Job Role Description	The Vulnerability Assessment and Penetration Testing Analyst designs and performs tests and check cases to determine if infrastructure components, systems and applications meet confidentiality, integrity, authentication, availability, authorisation and non-repudiation standards. He/She translates requirements into test plan, writes and executes test scripts or codes in line with standards and procedures to determine vulnerability from attacks. He certifies infrastructure components, systems and applications that meet security standards. The Vulnerability Assessment and Penetration Testing Analyst is well versed with cyber security standards, protocols and frameworks, has a creative and analytical mind, and deploys new and innovative methods to perform penetration tests. He works well in a team and communicates findings and implications effectively to relevant stakeholders.						
Critical Work Functions, Key Tasks and Performance Expectations	Critical Work Functions	К	ey Tasks	Performance Expectations			
	Establish cyber security policies	standards, policies and Assist in establishin policies for maintain security standards. Conduct reviews and security policies, preexceptions	g certification based ning compliance to cyber and assessment of existing ocedures, standards and				
	Oversee vulnerability assessment and penetration testing (VAPT) activities	infrastructure components and computer systems Propose recommendations for continuous improvement of testing processes and methodologies Identify emerging security and risk management trends, issues, and alerts in VAPT activities					
	Manage VAPTs	Prepare reports on VAPT results based on established guidelines Provide inputs on security penetration testing in the development of software and applications Review software designs, source codes and deployment to address cyber security issues Prepare documentation to facilitate certification of software Maintain repositories for certification documentation and modifications		5			
	Technical Skills and Competencies Generic Skills and Competencies						
Skills and Competencies	Audit and Compliance	Level 3	Digital Literacy	Advanced			
	Cyber Risk Management	Level 4	Computational Thinking	Advanced			
	Emerging Technology Synthesis	Level 4	Sense Making	Advanced			

	Learning and Development	Level 4	Transdisciplinary Thinking	Intermediate	
	Network Security	Level 4	Problem Solving	Advanced	
	Security Assessment and Testing	Level 4			
	Security Strategy	Level 4			
	Stakeholder Management	Level 3			
	Strategy Implementation	Level 3			
	Strategy Planning	Level 4			
	Test Planning	Level 4			
	Threat Analysis and Defence	Level 4			
Programme Listing	For a list of Training Programmes available for the ICT sector, please visit: www.skillsfuture.sg/skills-framework/ict				

The information contained in this document serves as a guide.