

SKILLS FRAMEWORK FOR INFOCOMM TECHNOLOGY SKILLS MAP – ASSOCIATE RADIO FREQUENCY ENGINEER				
Sector	Infocomm Technology			
Track	Infrastructure			
Sub-track	Build and Maintain			
Occupation	Infrastructure Engineer			
Job Role	Associate Radio Frequency Engineer			
Job Role Description	<p>The Associate Radio Frequency Engineer is responsible for supporting the planning, operations and optimisation of wireless networks and systems. He/She configures the network infrastructure necessary for wireless communications, and monitors and troubleshoots issues to maintain the quality and performance of wireless networks. He also ensures that wireless network activities are documented appropriately and in compliance with the required procedures and standards.</p> <p>He is familiar with wireless networking technologies, and proficient in the use of simulation software, programming languages and database servers.</p> <p>The Associate Radio Frequency Engineer is detail-oriented and enjoys problem solving or troubleshooting. He works well in teams and is able to prioritise tasks effectively.</p>			
Critical Work Functions and Key Tasks	Critical Work Functions	Key Tasks		
	Design wireless network and infrastructure	Conduct site surveys and gather requirements for the expansion or setup of wireless networks		
		Draft technical proposals and propose recommendations for deployment of wireless networks		
		Document wireless network infrastructure and designs		
		Conduct research on new technologies for wireless networking and radio frequency transmission		
	Deploy wireless networks and infrastructure	Configure and install wireless network equipment		
		Conduct interference analysis		
		Identify potential defects in wireless network infrastructure and software		
		Perform routine backups and administer disaster recovery protocols as required		
		Prepare technical specifications and documents to procure wireless network equipment		
	Optimise wireless network performance	Support the planning and execution of radio frequency tests and measurements		
		Prepare reports on radio network drive tests		
		Conduct performance monitoring for wireless networks and ensure alignment with defined metrics		
	Manage wireless network security	Monitor radio frequency signals and traffic for irregularities		
		Track and document network security incidents		
		Coordinate and configure network access and controls		
	Troubleshoot wireless communication issues	Identify and troubleshoot wireless network issues in accordance with standards and procedures		
		Coordinate with field engineers to rectify wireless network issues		
		Document wireless network issues and resolution		
Skills and Competencies	Technical Skills and Competencies		Generic Skills and Competencies	
	Business Environment Analysis	Level 2	Problem Solving	Basic
	Business Needs Analysis	Level 2	Communication	Basic

	Cyber and Data Breach Incident Management	Level 3	Computational Thinking	Basic
	Emerging Technology Synthesis	Level 3	Sense Making	Basic
	Infrastructure Deployment	Level 1, Level 2	Teamwork	Intermediate
	Infrastructure Support	Level 1, Level 2		
	IT Asset Management	Level 2		
	Network Administration and Maintenance	Level 1, Level 2		
	Network Configuration	Level 2		
	Problem Management	Level 3		
	Process Improvement and Optimisation	Level 3		
	Procurement	Level 2		
	Project Management	Level 3		
	Radio Frequency Engineering	Level 3		
	Service Level Management	Level 3		
	Stakeholder Management	Level 2		
	Test Planning	Level 2		
Vendor Management	Level 3			
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.