

		WORK FOR INFOCOMM TECHNOLOGY  P – INFRASTRUCTURE ENGINEER		
Sector	Infocomm Technology	I - IN HASTIOUTONE ENGINEER		
Track	Infrastructure			
Sub-track	Build and Maintain			
Occupation	Infrastructure Engineer			
Job Role		Infrastructure Engineer		
Job Role Description	infrastructure across on-premise infrastructure deployment and preservice standards. He oversees executing upgrades to infrastructure. He is familiar with various types	esponsible for the implementation, testing, optimisation and virtualisation of e, cloud and network infrastructure. He/She performs activities pertaining to performance to ensure delivery of infrastructure solutions in alignment with a major maintenance and troubleshooting issues, and is responsible for		
	-	akes a critical and methodical approach towards implementing infrastructure ring. He also maintains high standards of quality and collaborates with team issues.		
	Critical Work Functions	Key Tasks		
	Oversee infrastructure deployment	Assist in the design and implementation of infrastructure solutions across on-premise and cloud infrastructure that adhere to current architecture standards  Evaluate the feasibility of integrating or adopting emerging cloud and infrastructure technologies  Lead the testing of implemented infrastructure solutions to ensure requirements are met  Manage the integration of third-party technologies into cloud infrastructure		
		Develop documentation on administration, installation, configuration and troubleshooting  Develop system and service deployment scripts		
		Conduct technical analysis of complex software, hardware and infrastructure equipment		
		Oversee adherence to security requirements for infrastructure operations		
Critical Work		Monitor metrics for performance, reliability, availability, security and billing of infrastructure systems to proactively right-size infrastructure load		
Functions and Key Tasks		Analyse and present findings on infrastructure capabilities and limitations		
		Tune infrastructure and cloud systems to ensure optimal performance		
	Optimise infrastructure performance and systems	Conduct technical analysis to determine the extent to which solutions perform "as required" to ensure that future solutions meet anticipated demand  Support initiatives to improve the infrastructure systems and service delivery through automation and virtualisation  Develop reports on performance, reliability and availability of infrastructure systems by review of service uptime, utilisation and throughput		
	Resolve infrastructure- related incidents	Resolve escalated or major issues relating to infrastructure operations  Simulate user problems to perform end-to-end diagnosis for infrastructure incidents  Assist senior management in disaster recovery planning and testing		
		Implement improvements to infrastructure resolution methods and techniques  Maintain controls and documentation to ensure compliance with audit requirements		



				SKILLS	SG DEVELOPMENT AUTHORITY
		infrast	ructure	letect systematic security violat	
		Overs incide	•	procedures and policies for inf	rastructure-related
		Guide	and/or train team	ns to resolve infrastructure-relat	ed incidents
				re operations issues and maint	
	Manage infrastructure upgrades	mainte Organ proces Overs	enance routines ise schedules for sses ee improvements	ation of agreed infrastructure cl planned maintenance and sys to maintenance capability by u ack-up and storage	tem back-up
	Technical Skills and			Generic Skills and (	Competencies
	Applications Integration		Level 4	Service Orientation	Intermediate
	Budgeting		Level 3	Problem Solving	Advanced
	Business Environment Analys	is	Level 3	Resource Management	Intermediate
	Business Innovation		Level 4	Teamwork	Basic
	Business Needs Analysis		Level 3	Sense Making	Intermediate
	Business Requirements Mapp	oing	Level 3		
	Business Risk Management		Level 3		
	Change Management		Level 3		
	Cloud Computing		Level 4		
	Configuration Tracking		Level 3		
	Contract Management		Level 3		
	Cyber and Data Breach Incide Management	ent	Level 4		
Skills and Competencies	Emerging Technology Synthes	sis	Level 4		
P	Infrastructure Deployment		Level 4		
	Infrastructure Design		Level 4		
	Infrastructure Support		Level 4		
	Network Administration and Maintenance		Level 3		
	Network Configuration		Level 3		
	Network Security		Level 4		
	Partnership Management		Level 3		
	Performance Management		Level 4		
	Problem Management		Level 3		
	Process Improvement and Optimisation		Level 3		
	Procurement		Level 3		
	Quality Engineering		Level 4		
	Security Administration		Level 3		



	Service Level Management	Level 3	
	Software Configuration	Level 3	
	Solution Architecture	Level 4	
	Stakeholder Management	Level 3	
	Test Planning	Level 3	
	Vendor Management	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.