

		EWORK FOR INFOCOMM TECHNOLOGY – QUALITY ENGINEERING MANAGER				
Sector	Infocomm Technology					
Track	Strategy and Governance					
Sub-track	Quality Management					
Occupation	Quality Specialist					
Job Role	Quality Engineering Manager					
Job Role Description	process, and evaluates suitability quality tests to fulfil business neapplicable regulatory and relevance feedback to prioritise qualimeasures under different operating infrastructures, practices and continuous descriptions. He works in a team setting and familiar with international quality quality testing and analysis too. The Quality Engineering Management of the suitable process.	ger establishes suitable quality standards at each stage of the development ity of matrices to assess quality. He/She determines types and variations of eeds and requirements, as well as ensures that testing processes comply with ant quality testing requirements. He synthesises product performance against ity measures for testing, and manages the conduct of quality tests on quality ational and usage conditions. He recommends new technologies, tools and hanges to processes, as well as guides the automation of quality testing. It is proficient in programming languages required by the organisation. He is sy standards, test automation frameworks and tools, as well as applicable lis. Ger possesses strong analytical ability with excellent communication and y meticulous in nature, curious and is able to work in a dynamic environment.				
Critical Work Functions and Key Tasks	Critical Work Functions	Key Tasks				
	Develop quality standards	Determine quality standards at each stage of the development process to ensure quality of outputs Synthesise user requirements and expectations to determine suitable quality standards for end products Determine the suitability of including international standards and best practices in quality standards Evaluate suitability of quality matrices Oversee the development of user guides on quality standards Address issues of non-compliance with quality standards and specifications Review appropriateness and suitability of quality standards in the development process and for end products				
	Develop quality testing processes	Determine types and variations of quality tests for each phase of the product development process or lifecycle to fulfil business needs and requirements Assess objectives of quality tests for feasibility and relevancy to each phase of the development process or lifecycle Review steps in the quality test process against test objectives Ensure quality testing processes complies with regulatory and other relevant requirements Develop quality systems for the organisation				
	Develop plans to execute quality testing	Synthesise product performance against user feedback to prioritise quality measures for testing Determine quality testing objectives, assumptions and hypotheses Determine timelines, test environment, tools and approaches required, work allocation and responsibilities in quality testing Review test plans and make refinements to ensure robustness of testing				
	Perform quality testing	Review test scenarios for compliance with established testing procedures and guidelines Manage the conduct of quality tests across phases of the product development process or lifecycle on quality measures under different operational and usage conditions Provide technical inputs on quality gaps to the development team to improve product quality				



	Optimise quality processes	enable Validate measur Develop develop Recomi practice Guide t of tests Evaluat Ensure teams Manage standar Evaluat Review	early detection of e operating and uses drops or reports docume ment teams mend new technoles and changes the development teate automated test the conduct of a test the resolution of the the efficiency are the efficiency are commendation	enting quality testing outcomes of quality issues to ensure and outcomes of existing outcomes and infrastruction processes.	ctures, as well as y testing for suitable types ancements h relevant functional achievement of quality	
	Manage people and organisation	Assess implement Manage Monitor Propose and state Acquire Develop team Manage coachin individu	entation to enhance the budget experience and track the term operations of forecasts end operations of learning roadments and developmental	enditure and allocation according achievements and keep al plans, including targeted outside the use of resource maps to support the profession and development procession opportunities to maximize the use of maximizers.	diture and allocation across teams and projects 's achievements and key performance indicators lans, including targeted budgets, work allocations hise the use of resources to support the professional development of the and development process, including providing topportunities to maximise the potential of each	
				on Agile practices and valu		
	Technical Skills and	Compet		Generic Skills and Competencies		
	Agile Coaching		Level 4	Leadership	Intermediate	
	Agile Software Development		Level 4	Communication	Advanced	
	Applications Development		Level 4	Teamwork	Advanced	
	Budgeting		Level 4	Decision Making	Intermediate	
	Business Agility		Level 4	Problem Solving	Advanced	
Skills and Competencies	Business Needs Analysis		Level 4			
	Business Performance Management		Level 4			
	Failure Analysis		Level 4			
	Learning and Development		Level 5			
	Manpower Planning		Level 4			
	Networking		Level 4			
	Partnership Management		Level 4			
	People and Performance Management		Level 4			
	Performance Management		Level 4			

			SKILLS talea e 50	AUTHO
	Product Management	Level 4		
	Problem Management	Level 4		
	Process Improvement and Optimisation	Level 4		
	Process Validation	Level 4		
	Project Management	Level 4		
	Quality Engineering	Level 4		
	Quality Standards	Level 5		
	Software Design	Level 4		
	Software Testing	Level 4		
	Stakeholder Management	Level 4		
	Strategy Implementation	Level 4		
	Strategy Planning	Level 4		
	Test Planning	Level 4		
Programme Listing	For a list of Training Programmes availa framework/ict	ble for the ICT se	ctor, please visit: www.skillsfuture.	.sg/skills-

The information contained in this document serves as a guide.