

SKILLS FRAMEWORK FOR ELECTRONICS SKILLS MAP - SENIOR QUALITY ENGINEER					
Sector	Electronics				
Sub-sector	Semiconductor and Data Storage				
Track	Technical and Engineering				
Occupation	Engineer				
Job Role	Senior Quality Engineer				
Job Role Description	The Senior Quality Engineer evaluates and manages quality systems, tools and standards to meet business needs. He/She, as the subject matter expert, is required to identify risk areas, ensure the robustness of the risk control plans deployed for excursion free launch and conduct qualification and/or validation for new materials. He is responsible for developing a management system to ensure that operations meets both internal and external parties' quality requirements.				
	He has to take the lead in managing cross-functional teams in continuous improvement projects and assist in implementing process improvement projects. He plays an important role in organisational development through development of on-the-job training and mentoring of team leaders.				
	The Senior Quality Engineer possesses an analytical mind and leadership skills to steer the team to perform their best and achieve the desired organisational outcomes.				
Critical Work Functions and Key Tasks	Critical Work Functions		Key Tasks		
	Administer quality engineering			Evaluate calibration and measurement analysis systems for improvements	
				Conduct qualification and validation tests? for new materials	
				Identify risk areas and ensure risk control plans are deployed for excursion free launch	
				Deploy control plans for smooth production flows	
				Manage quality systems certification	
	Conform to management system requirements			Develop, drive and communicate quality systems to ensure operations meet both internal and external parties' quality requirements	
				Enhance safety procedures and ensure good housekeeping in the area of responsibilities	
				Conduct audit validation and drive systemic solutions with team members	
				Manage quality planning to complement quality systems	
				Drive compliance in quality policies and procedures	
	Contribute to continuous improvement			Lead cross-functional teams in continuous improvement projects	
				Lead continuous improvement projects	
				Collaborate with stakeholders in improvement activities to meet organisational goals	
				Identify system gaps and enhancements in the quality management systems	
				Formulate and implement quality project plans in joint consultation with stakeholders	
Influence organisational development			Develop on-the-job training programmes		
			Develop workplace learning plans		
			Develop team leaders through capability development and coaching		
			Lead team leaders in the development of business unit strategies and operational plans		
Skills & Competencies	Technical Skills and Competencies		Generic Skills and Competencies (Top 5)		
	Audit Management	Level 5	Communication	Intermediate	
	Change Management	Level 3	Creative Thinking	Intermediate	
	Conflict Management	Level 4	Decision Making	Intermediate	
	Continuous Process Improvement	Level 5	Leadership	Advanced	
	Crisis Situations Management	Level 3	Lifelong Learning	Intermediate	
	Data Analytics System Design	Level 5			
	Data Synthesis	Level 5			
	Effectiveness Management	Level 5			
	Enterprise Risk Management	Level 4			
	Factory Systems Management	Level 5			
	Failure Analysis	Level 5			
	Innovation Management	Level 4			
	Internet of Things (IoT) Management	Level 5			
	Learning and Development	Level 4			
	Metrology Management	Level 5			
	Operations Management	Level 5			
Organisational Analysis	Level 4				

	Organisational Strategising	Level 4	
	People Capability Development	Level 4	
	Product Testing	Level 5	
	Quality Control and Assurance	Level 5	
	Quality Process Control	Level 5	
	Quality Systems Management	Level 5	
	Vision Management	Level 3	
	Workplace Safety and Health (WSH) Systems Management	Level 5	
	Yield Analysis	Level 5	
Programme Listing	For a list of Training Programmes available for the Electronics sector, please visit: www.skillsfuture.sg/skills-framework/electronics		

The information contained in this document serves as a guide.