

SKILLS FRAMEWORK FOR ELECTRONICS SKILLS MAP - SENIOR PROCESS ENGINEER				
Sector	Electronics			
Sub-sector	Semiconductor and Data Storage			
Track	Technical and Engineering			
Occupation	Engineer			
Job Role	Senior Process Engineer			
Job Role Description	The Senior Process Engineer evaluates processes to optimise production capabilities and reviews the technical environment to meet business needs. He/She, as the subject matter expert, is required to analyse manufacturing process gaps to address product defect issues and improve process capability indices to meet product line targets. He is responsible for developing a management system to ensure operations meet 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 the development of on-the-job training and mentoring of team leaders.			
	The Senior Process 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 process engineering	Ensure technical operations meet daily output yield targets		
		Analyse manufacturing process gaps to address product defect issues		
		Design data monitoring systems to aid data analytics		
	Manage Process Capability	Evaluate processes to optimise process capability		
		Improve process capability indices to meet organisation goals		
		Develop new process capability for new product lines		
	Conform to management system requirements	Develop 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		
	Contribute to continuous improvement	Formulate strategies for manufacturing process performance improvements		
		Lead cross-functional teams in continuous improvement projects		
		Collaborate with stakeholders in improvement activities to meet organisational goals		
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		
	Manufacturing Process Management	Level 5		
	Operations Management	Level 5		
	Organisational Analysis	Level 4		
	Organisational Strategising	Level 4		
	Quality System Management	Level 5		
Workplace Safety and Health (WSH) Systems Management	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.