

SKILLS FRAMEWORK FOR ELECTRONICS SKILLS MAP - ASSISTANT PRODUCT ENGINEER				
Sector	Electronics			
Sub-sector	Semiconductor and Data Storage			
Track	Technical and Engineering			
Occupation	Engineer			
Job Role	Assistant Product Engineer			
Job Role Description	The Assistant Product Engineer applies engineering principles and techniques to improve the product yield and quality in a manufacturing environment to meet organisational objectives. He/She also assists in qualifying product testing to monitor product quality.			
	In addition, the Assistant Product Engineer participates in product and yield improvement projects, and partakes in the development of test programmes in accordance with organisational objectives.			
	The Assistant Product Engineer is required to have communication skills, good teamwork and an analytical mind to perform his role well to achieve the desired organisational outcomes.			
Critical Work Functions and Key Tasks	Critical Work Functions		Key Tasks	
	Administer product engineering	Assist line support group in the troubleshooting of set-up related downtimes, and assist in site restoration		
		Assist in the qualification of new testers and test hardware		
		Assist in new test programmes verification		
		Monitor product quality to reduce quality deviations		
	Control product issues	Interpret information provided by the network and/or dashboard for product yield monitoring		
		Collaborate with production team to conduct in-depth engineering analysis		
		Evaluate low yield and quality assurance fail lots		
		Assist in engineering and reliability testing		
	Conform to management system requirements	Enforce good safety culture and manufacturing practices		
		Ensure adherence to processes and procedures		
		Supervise manufacturing work for Workplace Safety and Health compliance		
	Contribute to continuous improvement	Assist in implementation of improvement projects		
Identify opportunities for continuous improvement projects				
Perform evaluation and/or experiments				
Collect data for analysis				
Skills & Competencies	Technical Skills and Competencies		Generic Skills and Competencies (Top 5)	
	Audit Management	Level 4	Communication	Basic
	Continuous Process Improvement	Level 3	Decision Making	Basic
	Data Analytics Systems Design	Level 3	Leadership	Basic
	Data Synthesis	Level 3	Lifelong Learning	Basic
	Electrostatic Discharge Control	Level 3	Teamwork	Basic
	Emergency Management	Level 3		
	Failure Analysis	Level 3		
	Good Manufacturing Practices Implementation	Level 3		
	Innovation Management	Level 3		
	Learning and Development	Level 2		
	Manufacturing Process Design	Level 4		
	Material Qualification	Level 4		
	Metrology Management	Level 3		
	New Product Introduction	Level 3		
	Product Testing	Level 3		
	Quality Systems Management	Level 3		
	Report Writing	Level 3		
	Solutioning	Level 4		
Technical Presentations	Level 4			
Workplace Safety and Health (WSH) Practices Implementation	Level 3			
Yield Analysis	Level 3			
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.