

SKILLS FRAMEWORK FOR ELECTRONICS SKILLS MAP - EQUIPMENT ENGINEER					
<b>Sector</b>	Electronics				
<b>Sub-sector</b>	Semiconductor and Data Storage				
<b>Track</b>	Technical and Engineering				
<b>Occupation</b>	Engineer				
<b>Job Role</b>	<b>Equipment Engineer</b>				
<b>Job Role Description</b>	The Equipment Engineer applies engineering principles and techniques to perform equipment engineering processes in a manufacturing environment to meet organisational objectives. His/Her work also includes ensuring proper installations and maintenance of equipment to minimise production delays. He needs to implement network solutions for equipment capability monitoring.				
	In addition, the Equipment Engineer leads equipment improvement projects, and develops robust equipment maintenance plans in accordance with organisational objectives. He would also be required to ensure compliance with Workplace Safety and Health, and other regulatory requirements in his line.				
	The Equipment Engineer is required to have strong communication skills to lead a team to meet organisational outcomes. He is expected to guide and mentor others under his charge.				
<b>Critical Work Functions and Key Tasks</b>	<b>Critical Work Functions</b>		<b>Key Tasks</b>		
	Administer equipment engineering			Ensure proper equipment on-site installations	
				Take charge of routine servicing teams and repair teams	
				Assist to plan and track all maintenance works	
				Investigate root causes of equipment failures	
	Manage equipment capability			Manage equipment monitoring	
				Implement network solutions for capability monitoring	
				Adopt new technologies to improve equipment system	
	Conform to management system requirements			Enforce good safety culture and maintenance practices	
				Maintain quality assurance systems related to equipment maintenance	
				Monitor facility performance data to establish good control parameters	
				Conduct technical presentations	
Contribute to continuous improvement			Lead continuous improvement projects		
			Lead working level community to explore opportunities for improvement projects		
Influence organisational development			Provide guidance to others		
			Develop training programmes for staff		
<b>Skills &amp; Competencies</b>	<b>Technical Skills and Competencies</b>		<b>Generic Skills and Competencies (Top 5)</b>		
	Audit Management	Level 4	Communication	Intermediate	
	Automated Operation Monitoring	Level 4	Decision Making	Intermediate	
	Automated Systems Design	Level 4	Leadership	Intermediate	
	Automation Process Control	Level 4	Lifelong Learning	Intermediate	
	Automation Systems Maintenance	Level 4	Teamwork	Intermediate	
	Continuous Process Improvement	Level 4			
	Data Analytics Systems Design	Level 4			
	Effectiveness Management	Level 4			
	Electrostatic Discharge Control	Level 4			
	Embedded Systems Integration	Level 5			
	Emergency Management	Level 4			
	Enterprise Risk Management	Level 3			
	Equipment Maintenance	Level 4			
	Factory Systems Management	Level 4			
	Failure Analysis	Level 4			
	Good Manufacturing Practices Implementation	Level 3			
	Hazards and Risk Control, and Policy Management	Level 4			
	Innovation Management	Level 3			
	Internet of Things (IoT) Management	Level 4			
	Learning and Development	Level 3			
	Operations Management	Level 4			
	Quality System Management	Level 4			
Report Writing	Level 4				
Solutioning	Level 5				
Technical Presentations	Level 5				

	Workplace Safety and Health (WSH) Practices Implementation	Level 4	
<b>Programme Listing</b>	For a list of Training Programmes available for the Electronics sector, please visit: <a href="http://www.skillsfuture.sg/skills-framework/electronics">www.skillsfuture.sg/skills-framework/electronics</a>		

The information contained in this document serves as a guide.