

**SKILLS FRAMEWORK FOR ENERGY AND CHEMICALS  
SKILLS MAP - JUNIOR MAINTENANCE TECHNICIAN**

<b>Sector</b>	Energy and Chemicals			
<b>Track</b>	Engineering and Maintenance			
<b>Occupation</b>	Technician			
<b>Job Role</b>	Junior Maintenance Technician			
<b>Job Role Description</b>	The Junior Maintenance Technician assists with the routine monitoring, basic troubleshooting and rectification of process equipment and systems to maintain their availability and reliability for plant operations. He/She works under close supervision and in compliance with maintenance Standard Operating Procedures (SOPs). He assists with maintenance activities associated with plant turnaround, and may specialise in electrical, rotating, static or instrumentation and control-related maintenance work.			
	The Junior Maintenance Technician applies Safe System of Work (SSoW) procedures and risk control measures to ensure work activities are carried out safely, and in compliance with Workplace Safety and Health (WSH) and Environmental Management System (EMS) requirements. He is a member of the Emergency Response Team (ERT) and supports continuous improvement projects for the plant.			
	The Junior Maintenance Technician works in the field, on either a rotating or day shift, and may be on call. He is a good team player and interacts effectively with others.			
<b>Critical Work Functions and Key Tasks</b>	<b>Critical Work Functions</b>		<b>Key Tasks</b>	
	Administer Workplace Safety and Health (WSH) and Environmental Management Systems (EMS)		Apply risk control measures to ensure work activities are carried out safely	
			Apply Safe System of Work (SSoW) procedures to ensure work activities are performed safely	
			Assist in toolbox meetings prior to starting work activities	
			Comply with WSH and EMS systems	
			Perform good housekeeping in the workplace	
	Manage emergency responses and crises		Respond to emergencies as an Emergency Response Team (ERT) member	
	Perform inspection and maintenance work		Apply emerging technologies to perform inspection and maintenance work	
			Assist in plant preventive and corrective maintenance on process equipment and systems	
			Assist in process equipment and system troubleshooting and rectification	
		Assist in the routine monitoring and inspection of process equipment and systems		
		Assist in the testing and commissioning of new and/or modified process equipment and systems		
	Assist in turnaround maintenance work			
	Follow Standard Operating Procedures (SOPs) for inspection and maintenance work			
Administer staff and organisational development		Support continuous improvement projects		
<b>Skills &amp; Competencies</b>	<b>Technical Skills and Competencies</b>		<b>Generic Skills and Competencies (Top 5)</b>	
	Continuous Improvement Management	Level 2	Teamwork	Basic
	Data and Statistical Analytics	Level 1	Sense Making	Basic
	Electrical Field Maintenance Management	Level 1	Communication	Basic
	Emergency Response Management	Level 2	Problem Solving	Basic
	Engineering Drawing Interpretation and Management	Level 1	Decision Making	Basic
	Environmental Management System Framework Development and Implementation	Level 1		
	Instrumentation and Control Field Maintenance Management	Level 1		
	Mechanical Field Maintenance Management	Level 1		
	Plant Turnaround Management	Level 1		
	Preventive Maintenance Management	Level 2		
	Robotic and Automation System Maintenance	Level 1		
	Safe System of Work Development and Implementation	Level 1		
	Workplace Safety and Health Framework Development and Implementation	Level 1		
	Workplace Safety and Health Hazard Identification and Risk Control Management	Level 1		
<b>Programme Listing</b>	For a list of Training Programmes available for the Energy and Chemicals sector, please visit: <a href="http://www.skillsfuture.sg/skills-framework/energyandchemicals">www.skillsfuture.sg/skills-framework/energyandchemicals</a>			

The information contained in this document serves as a guide.