

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

<b>Sector</b>	Energy and Chemicals			
<b>Track</b>	Engineering and Maintenance			
<b>Occupation</b>	Technician			
<b>Job Role</b>	Maintenance Technician			
<b>Job Role Description</b>	The Maintenance Technician performs routine monitoring and inspection, troubleshooting and rectification, as well as preventive and corrective maintenance on process equipment and systems, in accordance with maintenance Standard Operating Procedures (SOPs). He/She conducts maintenance work for plant turnarounds and records performed maintenance and inspection work in the computerised maintenance management system (CMMS). He may specialise in electrical, rotating, static or instrumentation and control related-maintenance work.			
	The Maintenance Technician applies Safe System of Work (SSoW) procedures, and participates in activity-based risk assessments, 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 Maintenance Technician works in the field, either on 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 Safe System of Work (SSoW) procedures to ensure work activities are performed safely		
		Comply with WSH and EMS systems		
		Ensure contractors comply with the organisation's WSH and EMS standards and practices		
		Participate in activity-based risk assessments		
		Participate in toolbox meetings prior to starting work activities		
	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 root cause analyses of equipment failures		
Follow Standard Operating Procedures (SOPs) for inspection and maintenance work				
Perform plant preventive and corrective maintenance on process equipment and systems				
Perform routine monitoring and inspection of process equipment and systems				
Perform testing and commissioning of new and/or modified process equipment and systems				
Perform troubleshooting and rectification on process equipment and systems				
Perform turnaround maintenance work				
Record maintenance and inspection work in the computerised maintenance management system (CMMS)				
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>	
	Asset Integrity Management	Level 2	Teamwork	Basic
	Continuous Improvement Management	Level 2	Sense Making	Basic
	Data and Statistical Analytics	Level 2	Problem Solving	Basic
	Electrical Field Maintenance Management	Level 2	Decision Making	Basic
	Emergency Response Management	Level 2	Communication	Basic
	Engineering Drawing Interpretation and Management	Level 2		
	Environmental Management System Framework Development and Implementation	Level 2		
	Incident Investigation Management	Level 2		
	Inspection Engineering Management	Level 2		
	Instrumentation and Control Field Maintenance Management	Level 2		
	Mechanical Field Maintenance Management	Level 2		
	Plant Turnaround Management	Level 2		
	Preventive Maintenance Management	Level 2		
	Process Analyser Maintenance Management	Level 2		
Robotic and Automation System Maintenance	Level 2			
Robotic and Automation Technology Application	Level 2			

<b>Skills &amp; Competencies</b>	Safe System of Work Development and Implementation	Level 2	
	Third Party Management	Level 2	
	Workplace Safety and Health Framework Development and Implementation	Level 2	
	Workplace Safety and Health Hazard Identification and Risk Control Management	Level 2	
<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.