

<b>SKILLS FRAMEWORK FOR ENGINEERING SERVICES</b> <b>SKILLS MAP – ASSISTANT ENGINEER/SENIOR TECHNICIAN (ENGINEERING CONSTRUCTION)</b>				
<b>Sector</b>	Engineering Services			
<b>Track</b>	Engineering Construction and Commissioning			
<b>Occupation</b>	Associate Professional and Technician			
<b>Job Role</b>	<b>Assistant Engineer/Senior Technician (Engineering Construction)</b>			
<b>Job Role Description</b>	<p>The Assistant Engineer/Senior Technician (Engineering Construction) oversees the installation and assembly of equipment, components and systems. He/She assists with contractor management, prepares technical documents and ensures compliance with quality and safety standards as per external regulations and organisational standards. He also assists with mechanical completion activities. He specialises in mechanical, electrical, control and instrumentation, civil, structural or geotechnical engineering disciplines.</p> <p>He is a good team player, and interacts effectively with others. He possesses problem-solving and interpersonal skills. He works on-site and is expected to travel occasionally to project locations.</p>			
<b>Critical Work Functions and Key Tasks / Performance Expectations</b>	<b>Critical Work Functions</b>		<b>Key Tasks</b>	<b>Performance Expectations* (For legislated / regulated occupations)</b>
	Manage execution of engineering construction projects	Ensure adherence to construction sequence and project plans for engineering construction activities	In accordance with: <ul style="list-style-type: none"> <li>• Workplace Safety and Health (WSH) Act;</li> <li>• Building Control Act;</li> <li>• Electricity Act;</li> <li>• Fire Safety Act</li> </ul>	
		Solicit required work permits and approvals based on regulatory and legislative prerequisites		
	Oversee installation of equipment, components and systems	Monitor installation and assembly of equipment, components and systems		
		Monitor compliance with design specifications for accurate installation and assembly of equipment, components and systems		
		Coordinate with contractors for engineering construction activities		
Monitor compliance with quality standards and guidelines				
Conduct mechanical completion activities	Support checks and inspections to validate completion of installation in line with project requirements			
	Schedule functional and technical tests on equipment, components and systems			

		Coordinate with engineering construction teams on closure of outstanding punch list items		
		Perform compliance checks against applicable codes, regulations and authority requirements		
		Prepare technical documents for mechanical completion		
	Manage health, safety and environment	Comply with the organisational Workplace Safety and Health (WSH) policies and Environmental Management Systems (EMS)		
		Coordinate with contractors to ensure compliance with the organisational WSH and EMS standards and practices		
		Support WSH and EMS accident and incident investigations		
		*Performance Expectations are non-exhaustive and subject to prevailing regulations		
<b>Skills &amp; Competencies</b>	<b>Technical Skills &amp; Competencies</b>		<b>Generic Skills &amp; Competencies (Top 5)</b>	
	Continuous Improvement Management	Level 2	Problem Solving	Intermediate
	Data and Statistical Analytics	Level 2	Communication	Intermediate
	Engineering Drawing Interpretation and Management	Level 2	Teamwork	Intermediate
	Environmental Management System Framework Development and Implementation	Level 2	Digital Literacy	Basic
	Equipment and Systems Testing	Level 2	Lifelong Learning	Basic
	Hazards and Risk Identification and Management	Level 2		
	Installation and Assembly	Level 2		
	Internet of Things Management	Level 2		
	Inventory Management	Level 3		
	Programme Management	Level 2		
	Quality System Management	Level 2		
	Robotic and Automation Technology Application	Level 2		
	Structural Testing	Level 2		

	Technical Inspection	Level 2	
	Technical Writing	Level 2	
	Technology Application	Level 2	
	Third Party Management	Level 3	
	Workplace Safety and Health Culture Development	Level 2	
	Workplace Safety and Health Framework Development and Implementation	Level 2	
<b>Programme Listing</b>	For a list of Training Programmes available for the Engineering Services sector, please visit: <a href="http://www.skillsfuture.sg/skills-framework/engineeringservices">www.skillsfuture.sg/skills-framework/engineeringservices</a>		

The information contained in this document serves as a guide.