

SKILLS FRAMEWORK FOR ENGINEERING SERVICES SKILLS MAP – ASSISTANT ENGINEER/SENIOR TECHNICIAN (COMMISSIONING)				
Sector	Engineering Services			
Track	Engineering Construction and Commissioning			
Occupation	Associate Professional and Technician			
Job Role	Assistant Engineer/Senior Technician (Commissioning)			
Job Role Description	<p>The Assistant Engineer/Senior Technician (Commissioning) assists with commissioning activities including inspection, testing, handover and initial start-up. He/She determines commissioning requirements and test cases. He tracks commissioning issues and prepares the commissioning reports. He provides administrative support for hand-over and start-up. He ensures compliance with external regulations and organisational standards, and adheres to Workplace Health and Safety (WSH) requirements. 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 has problem-solving and interpersonal skills. He works on-site and is expected to travel occasionally to project locations.</p>			
Critical Work Functions and Key Tasks / Performance Expectations	Critical Work Functions	Conduct commissioning planning	Key Tasks	Performance Expectations* (For legislated / regulated occupations)
			Perform basic commissioning scoping and scheduling activities	
	Propose commissioning and resourcing plans			
	Determine commissioning requirements based on project specifications and regulatory requirements			
	Identify test cases, test wares and test scripts for functional tests			
	Commission equipment, systems and assemblies	Support review of engineering design submittals to ensure compliance with the owner's project requirements (OPR)		
		Participate in commissioning meetings and site visits		
		Prepare construction checklists		
		Support execution of functional and technical tests to ensure quality and reliability of equipment, systems and assemblies		
		Participate in surveys, inspections and tests conducted by vendors and external stakeholders		

		Update commissioning issues logs to record commissioning items that do not comply with the OPR		
	Conduct handover and initial start-up	Prepare commissioning report documenting all commissioning activities and findings		
		Support pre-start-up safety review (PSSR)		
		Prepare operational equipment, systems and assemblies for hand-over to approved personnel		
		Determine training requirements for owners and operations and maintenance personnel		
		Support commissioning activities during initial start-up and ramp-up period		
	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		
	Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)
Commissioning and Start-Up Management		Level 2	Communication	Intermediate
Continuous Improvement Management		Level 2	Problem Solving	Intermediate
Data and Statistical Analytics		Level 2	Interpersonal Skills	Intermediate
Engineering Drawing Interpretation and Management		Level 2	Teamwork	Intermediate
Environmental Management System Framework Development and Implementation		Level 2	Service Orientation	Basic
Equipment and Systems Testing		Level 2		
Hazards and Risk Identification and Management		Level 2		

*Performance Expectations are non-exhaustive and subject to prevailing regulations

	Programme Management	Level 2	
	Quality System Management	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	
Programme Listing	For a list of Training Programmes available for the Engineering Services sector, please visit: www.skillsfuture.sg/skills-framework/engineeringservices		

The information contained in this document serves as a guide.