

SKILLS FRAMEWORK FOR ENGINEERING SERVICES SKILLS MAP – ENGINEER (PROJECT DEVELOPMENT)		
Sector	Engineering Services	
Track	Project Development	
Occupation	Engineering Professional	
Job Role	Engineer (Project Development)	
Job Role Description	<p>The Engineer (Project Development) is responsible for driving project development activities. He/She identifies potential project opportunities, evaluates their feasibility and prepares a business case for proposed projects. He works closely with internal and external stakeholders to develop project specifications, project estimation and project plans. He serves as a key interface between business and finance for key project needs. He also ensures periodic updates to project related documentation. He manages a team of officers and contributes to the improvement of business operations.</p> <p>He is preferably a trained engineer and is able to address technical queries that arise during the course of his duties. He is a good team player and comfortable in engaging and interacting with internal and external stakeholders. He possesses problem-solving and project management skills, and is able to multi-task in a fast-paced work environment. He may be expected to travel occasionally and work after office hours.</p>	
Critical Work Functions and Key Tasks	Critical Work Functions	Key Tasks
	Drive project origination and development	Conduct analysis on economic and market trends to support project origination opportunities
		Conduct risk and feasibility analysis for evaluation of proposed projects
		Analyse markets and customer segments for potential project opportunities and tenders
		Assess alternative project solutions based on technical and commercial value propositions
		Conduct economic, social and environmental impact assessment for proposed projects
		Develop business case and project proposals or tender responses
	Develop project specification	Define the project scope, goals and objectives
		Define project requirements and project constraints
Define an outreach plan for relevant internal and external project stakeholders		
Determine permit and approval requirements for compliance with regulatory and legislative pre-requisites		

		Develop project specification documentation			
	Conduct project planning and estimation	Develop quantitative estimates for project cost, resources and projected cash-flows in consultation with technical experts			
		Define baseline budget, schedule and project success metrics			
		Define project deliverables and work breakdown structures			
		Set up project team and outline their roles and responsibilities			
		Develop integrated project plans for project execution, risk management, quality control and safety management			
		Monitor resource availability to support business operations			
	Manage people and organisational function	Monitor employee performance by utilising performance management systems			
		Provide inputs on team's recruitment, training and development needs			
		Ensure adherence to planned budgets and financial forecasts			
		Implement risk management plans and risk controls within the team			
		Propose improvements to business processes and operations to drive continuous improvement			
		Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)
	Building Information Modelling Application		Level 3	Computational Thinking	Intermediate
Business Negotiation	Level 3		Communication	Intermediate	
Business Presentation Delivery	Level 3		Teamwork	Intermediate	
Business Proposal Writing	Level 3		Interpersonal Skills	Intermediate	
Change Management	Level 3		Problem Solving	Intermediate	
Civil and Structural Engineering Management	Level 4				
Continuous Improvement Management	Level 3				
Contract Development and Management	Level 4				
Cost Management	Level 3				
Data and Statistical Analytics	Level 3				
Electrical Engineering Management	Level 3				

	Environmental Management System Framework Development and Implementation	Level 3	
	Geotechnical Engineering Management	Level 4	
	Hazards and Risk Identification and Management	Level 3	
	Instrumentation and Control Design Engineering Management	Level 3	
	Learning and Development	Level 2	
	Manpower Planning	Level 3	
	Market Research	Level 3	
	Mechanical Engineering Management	Level 3	
	Organisational Resource Management	Level 4	
	Organisational Risk Management	Level 3	
	Programme Management	Level 2	
	Project Feasibility Assessment	Level 4	
	Project Risk Management	Level 3	
	Staff Management	Level 3	
	Stakeholder Management	Level 3	
	Technical Writing	Level 3	
	Technology Application	Level 3	
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.