	РОМ	VER ENGINEERING COMPETENCY F	RAMEWORK			
		echnical Officer / Technical Officer (C	construction & Commissioning)			
Sector Track	Power Engineering in the Public Service Construction & Commissioning					
Occupation Job Role	Electrical Engineering Technician					
	Senior Technical Officer / Technical Officer (Construction & Commissioning) The Senior Technical Officer / Technical Officer (Construction & Commissioning) is responsible for monitoring and tracking installations of electrical equipment, systems and					
Job Role Description	networks to highlight potential risks. He/She coordinates with design teams to review electrical design submittals. He assists in and records all commissioning checks. He facilitates collaboration with contractors and monitors their performance to ensure compliance with technical standards and codes of practice. In the event of breached safety requirements in the workplace, he also reports them and guides contractors on safe work practices. To drive decarbonisation, decentralisation and digitalisation, he gathers data for green initiatives and operational analytics. He should be authorised as a trained person by a licensed electrical worker to carry out the job duties. He is detail-oriented and systematic to monitor and track electrical installations and record commissioning checks. In addition, he has good interpersonal skills when guiding contractors to be compliant to technical standards.					
	Critical Work Functions	Кеу	Tasks	Performance Expectations (For legislated / regulated occupations)*		
	Manage construction / installation	Monitor installation of electrical equipn	nent, systems and networks	In accordance with: - Electricity Act including subsidiary legislations - Energy Market Authority of Singapore Act - International Electrotechnical Commission (IEC) Standards - International Organization for Standardisation (ISO) Standards - Singapore Standards for Electrical and Power sector		
		Track incidences of technical deviation technical standards during electrical in				
		Highlight potential construction related	l issues and risks			
		Prepare reports for audit tests on elec	trical equipment, systems and networks			
	Manage commissioning process	Coordinate with design teams for revie	-	- Workplace Safety and Health (WSH) Act		
		Assist in commissioning checks and te and networks		* Performance Expectations are non- exhaustive and subject to prevailing regulations and industry standards		
		Track and record all commissioning activities and findings for reporting purposes				
		Support pre-start-up safety reviews (PSSR) Support commissioning activities during handover, initial start-up and ramp-				
		up period	g nanuover, miliai start-up and ramp-	-		
Critical Work Functions and Key Tasks / Performance Expectations	Manage key stakeholders / Manage contractors	Facilitate collaboration with contractors				
		Prepare documentation to support tenders for electrical and power installation services				
		Coordinate tender evaluation, contractor selection and contract negotiations				
		Coordinate electrical and power installation works done by contractors				
		Monitor contractor performance and compliance with technical standards and codes of practice				
	Manage health, safety and environment	Report breaches of safety requirements in the workplace				
		Guide contractors on safe work practices				
		Comply with relevant sector regulations and codes of practice				
		Apply Permit-To-Work systems for electrical works				
		Comply with the agency's environmental sustainability practices, policies and procedures				
	Contribute to decarbonisation, decentralisation and digitalisation initiatives	Keep abreast of the latest trends in electrical and power technologies				
		Gather data for green initiatives using clean and renewable energy				
		Record data for operational analytics				
Skills & Competencies	Technical Skills and Co	ompetencies	Critical	Critical Core Skills		
	Airfield Lighting Systems Management	Level 2	Problem Solving	Basic		
	Battery Systems Management	Level 2	Sense-Making	Basic		
	Continuous Improvement Management	Level 3	Communication	Basic		
	Contract and Contractor Management	Level 2	Customer Orientation	Basic		
	Cybersecurity Framework Application	Level 2	Digital Fluency	Basic		

	Electrical Equipment and Systems Testing	Level 2	Collaboration	Basic
	Emergency Response and Crisis Management	Level 3	Computational Thinking	Basic
	Engineering Problem Solving	Level 3	Adaptability	Basic
	Environmental Sustainability Management	Level 3	Influence	Basic
	Equipment and Systems Installation and Commissioning	Level 2	Self Management	Basic
	Lifts and Escalators Systems Management	Level 2		
	Lighting Technologies Application	Level 3	-	
	Lightning Protection Systems Management	Level 2	-	
	Modelling, Simulation and Visualisation	Level 2	-	
	Power Engineering Management	Level 3	-	
	Regulatory Compliance and Risk Management	Level 2	-	
	Relay and Protection Systems Management	Level 2	-	
	Solar Photovoltaic Systems Application	Level 3	-	
	Stakeholder Management	Level 2	-	
	Substation Design Management	Level 2	-	
	Technical Inspection	Level 2		
	Technology and Systems Application	Level 2	-	
	Traction Power Systems Management	Level 2		
	Uninterrupted Power Supply Management	Level 2		
	Workplace Safety and Health Framework Implementation	Level 2		
Programme Listing	For a list of training programmes available for the	Power Engineers in the Public Service	, please refer to separate document on	training courses.

The information contained in this document serves as a guide.