POWER ENGINEERING COMPETENCY FRAMEWORK FOR POWER ENGINEERING PROFESSIONALS IN PUBLIC SERVICE TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT

TSC Category	Health and Safety Management					
TSC Title	Workplace Safety and Health Framework Implementation					
TSC Description	on Implement Workplace Safety and Health (WSH) and Safe System of Work (SSoW) frameworks and best practices to ensure a safe and reliable workplace					
TSC Proficiency	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Description		<insert code="" tsc=""></insert>	<insert code="" tsc=""></insert>	<insert code="" tsc=""></insert>	<insert code="" tsc=""></insert>	
		Follow Workplace Safety and Health (WSH) policies, procedures and Safe System of Work (SSoW) practices in day-to-day activities	Identify relevant Workplace Safety and Health (WSH) policies, procedures and Safe System of Work (SSoW) practices	Implement Workplace Safety and Health (WSH) and Safe System of Work (SSoW) frameworks and systems	Review compliance with Workplace Safety and Health (WSH) and Safe System of Work (SSoW) frameworks and systems	
Knowledge		 WSH and SSoW policies, procedures and practices Principles of hazard identification and activity-based risk assessment WSH in the workplace, signages, muster points, safety meetings WSH roles and responsibilities WSH document filling, storage and access Types and usage of Personal Protective Equipment (PPE) Safety signs and symbols Methods of planning, preparing, executing and maintaining a safe work environment WSH policies and procedures that are applicable to contractors Permit-to-Work systems, documentation, formats and layouts Principles of isolations and de-isolations 	 WSH Act, subsidiary legislations, regulations and Codes of Practice SSoW policies, procedures practices, and audit processes Roles and responsibilities of stakeholders in safety and health inspections Risk management processes, workflows and processes of activity-based risk assessments Processes, methods and techniques to identify hazards, evaluate risks and control risks Principles of Simultaneous Operations (SIMOPS) and possible impacts on risk assessments Fire and Explosion Prevention Safety Management System and Occupational Safety and 	 Work systems Principles and steps for conducting activity-based risk assessments Principles and steps for conducting Job Safety Analysis (JSA), Safe Operating Procedures and safe isolation procedures Process equipment and systems operating 	 WSH Act, subsidiary regulations, legal and other requirements WSH related industry Codes of Practice and Singapore Standards Methods to review, measure and control WSH workplace activities WSH key performance indicators (KPIs) Techniques and methods to review WSH legal compliance Methods of WSH audits and management review Best industry practices on Permit-to-Work systems, risk assessments, Job Safety Analysis (JSA), Safe Operating Procedures, safe isolation procedures, isolation and de-isolation procedures and lockouttagout (LOTO) Risk management techniques 	

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		SSoW workflows, roles and responsibilities, permit authorities and area authorities
Abilities	system in the workplace Apply SSoW processes and procedures Maintain good housekeeping standards Ensure correct selection of Personal Protective Equipment (PPE) Ensure contractors comply with WSH policies and procedures Contribute WSH improvement ideas Prepare work permits and work area Conduct activity-based risk assessments Implement risk control measures Cordinate work permit applications and issue work permits and determine risk levels Ensure effective implementation of SSoW during the execution of work activities Iegislations, guidelines and Codes of Practice and provide input for risk assessments including systems, assessm analysis, procedur isolation LOTO Ensure of WSH policies and procedures Comduct activity-based risk assessments Conduct incident investigations Coordinate work permit applications and issue work permits and determine risk levels Ensure effective implementation of SSoW during the execution of work activities Ensure s liegislations, guidelines and provide input for risk assessments and provide input for risk assessments analysis, procedure Comply with safety and health inspections Conduct incident investigations Coordinate work permit applications and issue work permits and determine risk levels Ensure effective implementation of SSoW during the execution of work activities Communitore Ensure of Coordinate activity-based risk assessments and determine risk levels Ensure effective implementation of SSoW during the execution of work activities Ensure of Coordinate activity-based risk assessments and determine risk levels Ensure of Coordinate activity-based risk assessments and determine risk levels Ensure of Coordinate activity-based risk assessments and determine risk levels Ensure of Coordinate activity-based risk assessments and determine risk levels Ensure of Coordinate activity-based risk assessments and entermine risk levels Ensure of Coordinate activity-based risk assessments and entermine risk levels Ensure of Coordinate work permit accounts of Coordinate activity-based risk as	enents, job safety, safe operating res, safe procedures and compliance with dicies and res within team as of abilities without and abilities are rolled out, and

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and SSoW frameworks,
practices and
procedures to enhance
the organisation's ability
to comply with regulatory
requirements