

**SKILLS FRAMEWORK FOR WORKPLACE SAFETY AND HEALTH
TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Workplace Safety and Health Management					
TSC	Workplace Safety and Health Management in Chemical, Process, Pharmaceutical Industries and Laboratories					
TSC Description	Manage the operational issues associated with the controls and put in place appropriate risk control measures in the chemical, process, pharmaceutical industries and laboratories industry					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		WPH-WSH-2079-1.1	WPH-WSH-3079-1.1	WPH-WSH-4079-1.1	WPH-WSH-5079-1.1	
		Identify common safety and health hazards and support appropriate control measures in the worksite	Manage risk assessment to carry out safety inspections and investigations in compliance with the safety and health management system	Mitigate operational issues associated with the controls and support implementation of control measures in the chemical, process, pharmaceutical industries and laboratories.	Handle operational issues associated with the management of risk in the chemical, process, pharmaceutical industries and laboratories	
Knowledge		<ul style="list-style-type: none"> Importance of Workplace Safety and Health (WSH) Consequences of unsafe work practices and workplace conditions Salient WSH legal and other requirements Overview of WSH management system WSH duties and responsibilities Safety and health planning and organisation Risk management process Permit-to-work for high-risk works 	<ul style="list-style-type: none"> Legal requirements of Workplace Safety and Health Act (WSHA) Guiding principles of WSHA Stakeholders under WSHA and their legal obligations General penalties for WSH offences Key WSH subsidiary legislations, regulations and codes of practice Roles and duties of an oil or petrochemical supervisor in safety and health WSH (Risk Management) Regulations 2006 Risk management process Methods to identify hazards Technique to evaluate risks Methods to control risks hierarchy of controls Pitfalls of risk assessments Need for regular review of risk assessment and control measures 	<ul style="list-style-type: none"> Key types of trades and working environment Applicable WSH legal and other requirements Types of WSH hazards and risks including personal health issues Control measures to address hazards and risks in the chemical, process, pharmaceutical industries and laboratories Relevant stakeholders WSH training for chemical, process, pharmaceutical industries and laboratories Methods of monitoring implementation of control measures Status report of an implementation plan 	<ul style="list-style-type: none"> Key operations and daily work activities in the chemical, process, pharmaceutical industries and laboratories Applicable WSH legal requirements for the chemical, process, pharmaceutical industries and laboratories WSH hazards and risks associated with chemical, process, pharmaceutical industries and laboratories Types of exposures to health hazards Control measures for the chemical, process, pharmaceutical industries and laboratories Management of chemical hazards Management of biological hazards Management of radiation hazards Management of general laboratory safety and health 	

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			<ul style="list-style-type: none"> • Importance of record keeping in risk management • Importance of communicating risks to stakeholders 		<ul style="list-style-type: none"> • Management of compliance issues • Operational control of fire and explosion • Control measures for working at heights • Methods of monitoring implementation of control measures • Status reports of implementation plan 	
Abilities		<ul style="list-style-type: none"> • Support in safe work practices and risk control procedures • Participate in workplace safety and health management activities <p>Support workplace emergency response procedures</p>	<ul style="list-style-type: none"> • Comply with workplace safety and health legislations, guidelines and code of practice and provide inputs for risk assessment • Identify hazards including personal health issues and control measures • Comply with safety and health management systems • Implement a permit-to-work system • Conduct safety and health inspections • Conduct incident investigations 	<ul style="list-style-type: none"> • Identify WSH hazards and assess the risks including personal health issues of key trades and daily work activities in accordance to organisational procedures and legal requirements • Support development of control measures to address the WSH hazards and risks identified • Carry out implementation plan in accordance to the organisational risk management plan • Communicate WSH hazards and risks, proposed control measures and implementation plan to relevant stakeholders • Implement control measures in daily work activities • Assist in compilation of reports to management on the status of the implementation plan 	<ul style="list-style-type: none"> • Identify WSH hazards and assess risks including personal health issues of key trades and daily work activities associated with the industry in accordance to organisational procedures and legal requirements • Develop the control measures to address the WSH hazards and risks • Formulate implementation plan in accordance to the organizational Risk Management Plan • Communicate WSH hazards and risks, proposed control measures and implementation plan to relevant stakeholders • Monitor the implementation of control measures in daily work activities • Report to management on the status of the implementation plan 	