

TSC Category	Health, Safety and Environment Management					
TSC	Workplace Safety and Health Hazard Identification and Risk Control Management					
TSC Description	Implement a systematic approach for hazard identification and risk assessment to effectively eliminate or reduce risks					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	ECM-HSE-1005-1.1	ECM-HSE-2005-1.1	ECM-HSE-3005-1.1	ECM-HSE-4005-1.1	ECM-HSE-5005-1.1	
	Identify hazards and perform risk control measures in the preparation and execution of work activities	Apply hazard identification and select appropriate risk control measures in the planning, preparation and execution of work activities	Interpret risk management procedures and practices to conduct risk assessments and recommend risk control measures to eliminate or reduce risks	Develop and implement risk management plans to eliminate or reduce risks for a safe workplace with compliance to regulations and Workplace Safety and Health (WSH) system requirements	Evaluate risk management plans to ensure the robustness and effectiveness of risk management system and to achieve the organisation's Workplace Safety and Health (WSH) objectives	
Knowledge	<ul style="list-style-type: none"> Workplace Safety and Health (WSH) policies and procedures Principles of risk assessment Definitions of hazards and risks Types of hazards Hierarchies and types of risk control measures Registration of work activities with high risks Types and interpretation of safety signs and notices Procedures of reporting hazards 	<ul style="list-style-type: none"> Workplace Safety and Health (WSH) policies and procedures Roles and responsibilities of the risk assessment team Principles of risk assessment and risk management Procedures and practices for the conduct of risk assessments Types of hazards and risks Methods of risk evaluation Risk matrices based on likelihood and severity ratings Classification of risks Hierarchies and types of risk control measures 	<ul style="list-style-type: none"> Workplace Safety and Health (WSH) legal and other requirements Industry best practices and Codes of Practice on risk management Organisational WSH risk management procedures and practices Roles and responsibilities of the risk assessment team List of inventory for risk assessment work activities Types of hazards and risks Methods of risk evaluation Risk matrices based on likelihood and severity ratings Classification of risks Hierarchies and types of risk control measures Methods of monitoring and ensuring risk control 	<ul style="list-style-type: none"> WSH legal and other requirements Industry best practices and Codes of Practice on risk management Updates on amended or new WSH legal requirements Scoping of risk assessments Risk assessments and risk management workflows and practices Roles and responsibilities of the risk management team Types of hazards and health hazards Human and cultural factors for risk assessments Methods and criteria of risk evaluation Types of risk matrices Risk evaluation procedures 	<ul style="list-style-type: none"> WSH legal and other requirements Industry best practices and Codes of Practice on risk management Updates on amended or new WSH legal requirements Development of WSH risk management strategies Correlate WSH performance indicators with the effectiveness of risk management Methods to review risk management plans, workflows and practices Causes and types of lapses in WSH control measures WSH document control methods 	

			<p>measures are implemented correctly and effectively</p> <ul style="list-style-type: none"> • WSH communication methods 	<ul style="list-style-type: none"> • Hierarchies and types of risk controls • Methods of implementing risk management • Types of WSH communication • Documentation control for risk management 	
Abilities	<ul style="list-style-type: none"> • Apply risk control measures to ensure work activities are carried out safely • Identify types of hazards at workplace • Implement risk control measures during the execution of work activities • Identify a range of basic safety signs and notices • Report any abnormalities and problems encountered in complying with WSH and risk management requirements • Perform safety checks on work areas, safety signs, safety devices and equipment 	<ul style="list-style-type: none"> • Participate in activity-based risk assessments • Identify hazards associated with routine and non-routine work activities • Evaluate risk levels based on likelihood and severity ratings • Identify types of risk control measures • Perform risk control measures in accordance with the hierarchies of risk control • Perform safety checks on work areas, safety signs, safety devices and equipment 	<ul style="list-style-type: none"> • Form risk assessment team as per the organisation's procedures and practices • Perform scoping of risk assessments • List inventory of work for risk assessments • Gather relevant information required for risk assessments • Supervise the execution of activity-based risk assessments • Communicate the hazards identified and their control to relevant parties • Ensure risk control measures are implemented and monitored correctly and effectively • Record and maintain risk assessment documents • Suggest improvements for the preparation, execution and implementation of risk assessments 	<ul style="list-style-type: none"> • Establish risk management plans, workflows and practices • Determine scope and extent of risk assessments • List and communicate the roles and responsibilities of the risk management team • Oversee the implementation of risk management to ensure staff and contractors at all levels understand the process and act safely during work activities • Incorporate human and cultural factors in risk assessment processes • Align risk management practices with industry best practices • Manage and maintain documentation for risk management and review the documents on a regular basis to ensure its currency • Oversee risk management in areas of accountability • Investigate risk management related issues and recommend improvements 	<ul style="list-style-type: none"> • Drive the implementation of risk management strategies, plans, workflows and procedures and engage all levels of the organisation • Endorse risk assessment documents • Drive continuous improvement throughout the organisation • Evaluate risk management performance and implement corrective and preventive actions • Communicate WSH performance both internally and externally • Liaise with external governing bodies on standards and legal compliance issues • Guide teams on international best practices • Review the documentation system for WSH risk management