

TSC Category	Emergency Response and Crisis Management					
TSC	Emergency Response Management					
TSC Description	Respond to emergencies by executing emergency response plans and procedures to mitigate the impact of emergency incidents					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		ECM-ERC-2003-1.1	ECM-ERC-3003-1.1	ECM-ERC-4003-1.1	ECM-ERC-5003-1.1	
		Identify Emergency Response Plans (ERPs) and procedures to respond as an Emergency Response Team (ERT) member in the event of an emergency incident	Implement Emergency Response Plans (ERPs) and procedures to ensure the emergency preparedness and readiness of the organisation in the event of an emergency incident	Establish procedures and processes to ensure the emergency preparedness and readiness of the organisation in the event of an emergency incident	Lead the execution and review of the organisation's Emergency Response Plans (ERPs), and communication protocols, to ensure the effectiveness and robustness of emergency preparedness and readiness of the organisation	
Knowledge		<ul style="list-style-type: none"> Principles of emergency response Definitions of emergency and crisis Emergency communication protocol Individual roles and responsibilities for Emergency Response Teams (ERTs) Types of emergency situations Emergency response decision making processes Personal Protective Equipment (PPE) in emergency situations 	<ul style="list-style-type: none"> Roles and responsibilities of the Company Emergency Response Team (CERT) within the fire and Hazmat emergency command system Site ERPs and procedures The nine classes of hazardous materials Chemical and fuel hazards during fire and chemical spills Types of fire protection systems Causes of fires and stages of a fire incident Types of fire-fighting and Hazmat equipment Types and use of automatic deluge systems Specific Personal Protective Equipment (PPE) for fire-fighting 	<ul style="list-style-type: none"> Organisational policies, standards, procedures and practices for Emergency Response and Crisis Management (ERCM) Roles and responsibilities of the Site Incident Controller (SIC) Emergency Response Plans (ERPs) and procedures Escalation thresholds from emergency response to a crisis Communication protocol Lines of command Organisation specific workplace procedures for reporting ERCM issues Methods for reviewing emergency and drill records 	<ul style="list-style-type: none"> Organisational policies, standards, procedures and practices for Emergency Response and Crisis Management (ERCM) Roles and responsibilities of the Site Main Controller (SMC) Objectives of Company Emergency Response Team (CERT) Structure of CERT Roles of CERT members during crisis Incident Management Process Interaction between CERT and the Singapore Civil Defence Force (SCDF) Aspects of an incident size-up Emergency Operation Centre 	

			<ul style="list-style-type: none"> and Hazmat emergencies • Communications during fire and Hazmat emergency situations • Environmental conditions and salvage considerations • Methods of minimising risk or danger to oneself and others • Personnel and agencies to be kept informed during fire and Hazmat emergencies • Selection and use of appropriate breathing apparatus (BA) • Guidelines on Hazmat zoning • Hazmat exposure safety limits and response system • Effects of meteorological conditions during a Hazmat incident • Selection of appropriate gas detectors and Hazmat equipment/tools • Decontamination methods • Search and rescue principles, techniques and equipment • Command and control during search and rescue • Casualty handling 	<ul style="list-style-type: none"> • Methods for reviewing inspections, maintenance and testing of emergency response equipment 		
Abilities		<ul style="list-style-type: none"> • Respond to emergency as a response team member • Follow ERPs and procedures 	<ul style="list-style-type: none"> • Prepare for fire and Hazmat emergencies • Participate to contain fire emergencies • Participate to contain Hazmat emergencies 	<ul style="list-style-type: none"> • Respond to emergency as a SIC • Execute emergency responses • Activate Emergency Response Teams (ERTs) 	<ul style="list-style-type: none"> • Identify the key roles and duties of CERT members • Identify the support required by the Site Incident Controller (SIC) 	

**SKILLS FRAMEWORK FOR ENERGY AND CHEMICALS
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

		<ul style="list-style-type: none"> • Apply appropriate personal protective measures • Notify supervisory staff and support work area personnel during an emergency • Provide post emergency support • Participate in emergency response exercises and drills 	<ul style="list-style-type: none"> • Assist in search and rescue operations 	<ul style="list-style-type: none"> • Audit emergency response operation • Determine follow up action required and manage clean up teams • Lead ERT preparedness and readiness • Lead emergency response drills 	<ul style="list-style-type: none"> • Implement the Incident Management process during crisis management • Evaluate CERT readiness levels and improvements opportunities • Document the CERT structure 	
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