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

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<thead>
<tr>
<th>TSC Proficiency Description</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
<th>Level 6</th>
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<tr>
<td></td>
<td>ECM-HSE-1005-1.1</td>
<td>ECM-HSE-2005-1.1</td>
<td>ECM-HSE-3005-1.1</td>
<td>ECM-HSE-4005-1.1</td>
<td>ECM-HSE-5005-1.1</td>
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- 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:

- 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
- 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
- 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
- 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
- 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
<table>
<thead>
<tr>
<th>Abilities</th>
<th>measures are implemented correctly and effectively</th>
<th>• Hierarchies and types of risk controls</th>
<th>• Drive the implementation of risk management strategies, plans, workflows and procedures and engage all levels of the organisation</th>
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<tbody>
<tr>
<td>• Apply risk control measures to ensure work activities are carried out safely</td>
<td>• WSH communication methods</td>
<td>• Methods of implementing risk management</td>
<td>• Endorse risk assessment documents</td>
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<td>• Identify types of hazards at workplace</td>
<td>• Hierarchies and types of risk controls</td>
<td>• Types of WSH communication</td>
<td>• Drive continuous improvement throughout the organisation</td>
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<td>• Implement risk control measures during the execution of work activities</td>
<td>• Documentation control for risk management</td>
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<td>• Evaluate risk management performance and implement corrective and preventive actions</td>
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<tr>
<td>• Identify a range of basic safety signs and notices</td>
<td>• Perform risk control measures in accordance with the hierarchies of risk control</td>
<td>• Oversee the implementation of risk management to ensure staff and contractors at all levels understand the process and act safely during work activities</td>
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<td>• Report any abnormalities and problems encountered in complying with WSH and risk management requirements</td>
<td>• Perform safety checks on work areas, safety signs, safety devices and equipment</td>
<td>• Incorporate human and cultural factors in risk assessment processes</td>
<td>• Communicate WSH performance both internally and externally</td>
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<tr>
<td>• Perform safety checks on work areas, safety signs, safety devices and equipment</td>
<td>• Participate in activity-based risk assessments</td>
<td>• Align risk management practices with industry best practices</td>
<td>• Liaise with external governing bodies on standards and legal compliance issues</td>
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<td>• Form risk assessment team as per the organisation’s procedures and practices</td>
<td>• Identify hazards associated with routine and non-routine work activities</td>
<td>• Manage and maintain documentation for risk management and review the documents on a regular basis to ensure its currency</td>
<td>• Guide teams on international best practices</td>
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<td>• Perform scoping of risk assessments</td>
<td>• Evaluate risk levels based on likelihood and severity ratings</td>
<td>• Oversee risk management in areas of accountability</td>
<td>• Review the documentation system for WSH risk management</td>
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<td>• List inventory of work for risk assessments</td>
<td>• Identify types of risk control measures</td>
<td>• Investigate risk management related issues and recommend improvements</td>
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