

1. Title	Implement risk management for electrical and mechanical services
2. Code	EMCUSH502A
3. Range	Apply risk assessment and management techniques to formulate and implement risk management plans.
4. Level	5
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Know about different kinds of electrical and mechanical engineering risks and their management methods</p> <ul style="list-style-type: none"> <li>◆ Understand different kinds of electrical and mechanical engineering risks such as: <ul style="list-style-type: none"> <li>• Different kinds of potential hazards and risks caused by them</li> <li>• Risk analysis modes such as HAZOP(Hazard and Operability Studies) 、QRA(Quality Risk Assessment) 、FMEA(Failure Modes and Effects Analysis) and FTA(Fault Tree Analysis), etc.</li> <li>• Other risk related factors such as occupational safety and health, management systems, Factories and Industrial Undertakings Ordinance, etc.</li> <li>• Risk control and risk management plans</li> </ul> </li> </ul> <p>6.2 Implement risk management for electrical and mechanical services</p> <ul style="list-style-type: none"> <li>◆ Identify potential hazards and their kinds (e.g. chemical hazards, electrical hazards, etc.), the chance of happening and the consequences</li> <li>◆ Conduct risk assessment and analysis <ul style="list-style-type: none"> <li>• Conduct risk assessment for the working procedure, work type, machinery and organization according to the chance of happening and the consequences of the hazard</li> <li>• Analyze the price for the accident and the advantages of safe operation</li> <li>• Consider comprehensively the aspects of occupational safety and health as well as environmental protection when conducting risk assessment</li> </ul> </li> <li>◆ Control and management risks <ul style="list-style-type: none"> <li>• Formulate risk control levels based on risk assessment data</li> <li>• Formulate the risk control and management plan according to risk control levels and by taking into consideration of the OHSAS18000 Occupational Health and Safety Assessment Series and Factories and Industrial Undertakings Ordinance and regulations</li> <li>• Implement risk management for electrical and mechanical services according to the risk control and management plan</li> </ul> </li> </ul>

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>(i) Capable to identify hazards and assess risks according to the activities and nature of the electrical and mechanical services; and</li> <li>(ii) Capable to devise a risk control and management plan according to the hazards identified, risk assessment and other considerations.</li> </ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of occupational safety management.</p>