

1. Title	Formulate strategies to maintain the safety, reliability, comfort, environmental protection and efficiency of various railway electrical and mechanical systems
2. Code	EMRAOM601A
3. Range	Formulate strategies to maintain the safety, reliability, comfort, environmental protection and efficiency of various electrical and mechanical systems in railway, including equipment renewal and upgrade, human resources training and coordination of relevant departments of the organization.
4. Level	6
5. Credits	20
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Studies and skills to maintain the safety, reliability, comfort, environmental protection and efficiency of various railway electrical and mechanical systems</p> <ul style="list-style-type: none"> <li>◆ Be familiar with the operation mode, performance requirements and standards of various railway electrical and mechanical system equipment</li> <li>◆ Master specialized knowledge of railway electrical and mechanical works, apply such knowledge to review and analyze the performance and trend data of various railway electrical and mechanical systems, and formulate strategies to maintain the performance</li> <li>◆ Capable to study strategies to maintain the performance of various railway electrical and mechanical systems from different aspects including design, maintenance and management, etc.</li> <li>◆ Master the skills to screen, consolidate and analyze performance data of various railway electrical and mechanical systems, so as to study and formulate strategies to maintain the safety, reliability, comfort, environmental protection and efficiency of various railway electrical and mechanical system equipment</li> </ul> <p>6.2 Methods and procedures of formulating strategies to maintain the safety, reliability, comfort, environmental protection and efficiency of various railway electrical and mechanical systems</p> <ul style="list-style-type: none"> <li>◆ Capable to formulate strategies to maintain the performance of design of various railway electrical and mechanical systems, including <ul style="list-style-type: none"> <li>• Formulating plans to review the status of various railway electrical and mechanical systems and equipment, and renewing and upgrading systems and equipment to maintain the safety, reliability, comfort, environmental protection and efficiency of various railway electrical and mechanical systems</li> <li>• Formulating plans to review the performance trend of systems and equipment, and formulate strategies to maintain the quality and efficiency of the systems and equipment in respect of their design</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>◆ Capable to formulate strategies and plans to maintain the operation status of the systems and equipment, and review and assure the performance of the following so as to maintain the safety, reliability, comfort, environmental protection and efficiency of various systems and equipment <ul style="list-style-type: none"> <li>• Human resources and training</li> <li>• Staff communication</li> <li>• Maintenance and repair strategy</li> </ul> </li> <li>◆ Capable to coordinate the departments of design, engineering and relevant supporting units of the organization and goals of different departments, so as to maintain the safety, reliability, comfort, environmental protection and efficiency of various systems</li> <li>◆ Capable to formulate mechanisms to review the effectiveness of operation of various departments</li> </ul> <p>6.3 Professionalism in formulating strategies to maintain the performance of various railway electrical and mechanical systems</p> <ul style="list-style-type: none"> <li>◆ Formulate strategies to maintain the safety, reliability, comfort, environmental protection and efficiency of various railway electrical and mechanical systems according to the standards and requirements for safety, health, environmental protection and quality management of railway works</li> <li>◆ Understand the safety guidelines as required by the law and codes of practice when formulating strategies to maintain the performance of various railway electrical and mechanical systems</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to formulate effective strategies and plans to maintain the safety, reliability, comfort, environmental protection and efficiency of various railway electrical and mechanical systems; and</p> <p>(ii) Capable to formulate effective mechanisms to coordinate and review the effectiveness of operation of various departments.</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses the expertise in electrical and mechanical works and management.</p>