

1. Title	Formulate strategies and plans for reducing the faults in railway overhead feeder system equipment
2. Code	EMRAOR602A
3. Range	Assess the development of new technologies in power supply equipment and its maintenance and the change of railway environment, and formulate strategies and plans for reducing the faults in railway overhead feeder system equipment according to the analysis of fault records and operation performance of such system.
4. Level	6
5. Credits	20
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Studies and techniques for reducing the faults in railway overhead feeder system equipment</p> <ul style="list-style-type: none"> <li>◆ Analyze and assess from different aspects the information and records of the faults and performance of railway overhead feeder system equipment and apply the knowledge of railway overhead feeder works to formulate plans for reducing the faults in such system equipment</li> <li>◆ Master the techniques of reviewing, integrating and extending the knowledge of new technologies and development and apply it to formulate plans for reducing the faults in railway overhead feeder system equipment</li> <li>◆ Master the application of management knowledge and skills so as to formulate plans for improving persistently the performance of feeder system equipment</li> <li>◆ Analyze and assess the cost-effectiveness of improvement plans</li> </ul> <p>6.2 Methods and procedures of formulating strategies and plans for reducing the faults in railway overhead feeder system equipment</p> <ul style="list-style-type: none"> <li>◆ Formulate the strategies for improving the reliability of the railway overhead feeder system based on the analysis of system fault records, including: <ul style="list-style-type: none"> <li>• Improving the design of overhead feeder system equipment</li> <li>• Diversifying the load to enhance safety factor</li> <li>• Improving the power factor management equipment</li> <li>• Improving the methods of maintaining consumable parts</li> </ul> </li> <li>◆ Apply the instruments and equipment developed by new technologies to monitor the operation of the overhead feeder system so as to reduce the faults in power supply system equipment</li> <li>◆ Apply the instruments and equipment developed by new technologies to improve the fault-alerting functions of feeder system equipment</li> </ul>

	<ul style="list-style-type: none"> <li>◆ Formulate strategies for persistently reducing the faults in power supply system equipment, including: <ul style="list-style-type: none"> <li>• Establishing good communication and cooperation among departments</li> <li>• Negotiating with staff on formulation of training programmes and providing adequate and upgrading training for them</li> <li>• Formulating review mechanism for the operation and make improvements</li> </ul> </li> </ul> <p>6.3 Professionalism in formulating strategies and plans for reducing the faults in railway overhead feeder system equipment</p> <ul style="list-style-type: none"> <li>◆ Formulate strategies and plans for reducing the faults in railway overhead feeder system equipment according to the standards and requirements for work 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 in formulating strategies and plans for reducing the faults in railway overhead feeder system equipment</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to formulate strategies and plans efficiently for reducing the faults in railway overhead feeder system equipment; and</p> <p>(ii) Capable to formulate strategies and plans efficiently for persistently reducing the faults in overhead feeder system equipment.</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses expertise in overhead feeder system works.</p>