1. Title	Repair the faults in railway overhead feeder systems
2. Code	EMRAOR308A
3. Range	Identify and repair the faults in railway overhead feeder systems and protection devices in areas with railway overhead lines or power control rooms.
4. Level	3
5. Credits	6
6. Competency	Performance Requirements
6. Competency	<ul> <li>6.1 Working principles <ul> <li>Understand the structure and working principles of the railway overhead feeder</li> <li>Contact wire</li> <li>Systems and</li> <li>Catenary wire</li> <li>equipment and</li> <li>Insulator</li> <li>Isolator</li> <li>Understand the structure and working principles of the switching devices and electricity quality improvement devices of overhead feeder systems, including: <ul> <li>Power switching devices</li> <li>Circuit breakers</li> <li>Interlock devices</li> <li>Electricity quality improvement devices</li> </ul> </li> <li>Understand the structure and working principles of the control and protection devices of overhead feeder systems, including</li> <li>PLC control unit</li> <li>Distance and district overcurrent protection devices</li> <li>Earth fault protection devices</li> <li>Master the basic fault finding techniques</li> </ul> </li> </ul>
	<ul> <li>6.2 Methods and procedures of identifying and repairing the faults in railway overhead feeder systems and equipment</li> <li>Check the control and protection devices of the overhead feeder system according to the information and fault symptoms so as to identify the fault equipment or components</li> <li>Check the control and protection devices of the overhead feeder system according to the information and fault symptoms so as to identify the fault equipment or components</li> <li>Remove the faults after identifying the fault equipment or components</li> <li>Use general electrical and overhead line repairing and testing instruments and tools efficiently</li> </ul>

	<ul> <li>6.3 Professionalism in repairing faults in railway overhead feeder systems and equipment</li> <li>Understand the safety guidelines as required by the law and codes of practice in removing faults in railway overhead feeder systems and equipment</li> </ul>
7. Assessment	The integrated outcome requirement of this unit of competency is:
Criteria	<ul> <li>(i) Capable to identify the faults in the railway overhead feeder system safely and efficiently according to the information and fault symptoms;</li> </ul>
	<ul> <li>(ii) Capable to identify the faults in the control and protection devices of the railway overhead feeder system safely and efficiently according to the information and fault symptoms.</li> </ul>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of electricity.