1. Title	Perform insulation tests, pressure tests and overall system commissioning tests for the railway overhead feeder system
2. Code	EMRAIT508A
3. Range	Perform overall system commissioning tests for the railway overhead feeder system, including insulation tests, pressure tests, earth impedance tests and drop-short tests, and undertake function tests and interlocking tests for the control and protection system.
4. Level	5
5. Credits	9
6. Competency	Performance Requirements
	<ul> <li>6.1 Principles and standards for commissioning tests for the railway overhead feeder system</li> <li>Master the techniques of applying various types of testing instruments</li> <li>railway overhead feeder system</li> </ul>
	<ul> <li>6.2 Methods and procedures of performing insulation tests, pressure tests and pressure tests and overhead wire according to testing standards</li> <li>Measure and record the data from tests</li> <li>Undertake insulation tests, pressure tests, earth impedance tests and drop-short tests for the main circuit of the overhead feeder system commissioning tests for the railway overhead feeder system</li> <li>Measure and record the data from tests, including the data of electricity quality</li> <li>Undertake function tests, interlocking tests and control logic tests for the control and protection devices of the power supply system of trains, including control and protection relays and circuits, PLC devices and SCADA devices, according to circuit configuration, and control and protection logic</li> <li>Analyze the data from railway overhead feeder system tests and assess whether the system complies with commissioning standards</li> </ul>
	<ul> <li>6.3 Professionalism in performing commissioning tests for the railway overhead feeder system</li> <li>Understand the safety measures for performing commissioning tests for the railway overhead feeder system</li> <li>Understand the safety guidelines as required by the law and codes of practice in handling the commissioning tests for the railway overhead feeder system</li> </ul>

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is:
	(i) Capable to draft the procedures and standards of the overall system tests for the main circuit of the railway overhead feeder system; and
	<ul> <li>(ii) Capable to calculate and analyze the measurements from tests efficiently and assess whether the feeder system complies with commissioning standards.</li> </ul>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses expertise in power supply system and equipment.