

1. Title	Inspect, test and commission the railway overhead feeder system equipment
2. Code	EMRAIT407A
3. Range	Inspect, test and commission the railway overhead feeder system equipment and control circuits and protecting devices at power control rooms, switch rooms and railway premises with overhead lines according to guidelines and standards, and test whether they function properly, including conducting inspections on live and/or isolated condition.
4. Level	4
5. Credits	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles of and standards for inspecting, testing and commissioning the railway overhead feeder system equipment</p> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of the railway overhead feeder system equipment, including: <ul style="list-style-type: none"> • Main line system • Feeder switch device • Electricity quality improvement device • Controlling device • Protecting device ◆ Understand the scope and standards for inspection, testing and commissioning of the feeder system equipment <p>6.2 Methods and procedures of inspecting, testing and commissioning the railway overhead feeder system equipment</p> <ul style="list-style-type: none"> ◆ Able to read the inspection, testing and commissioning guidelines and select useful information ◆ Calculate and compile the details for testing and commissioning according to relevant information ◆ Inspect, test and commission the railway overhead feeder system equipment, including conducting inspections on live and/or isolated condition, according to guidelines and standards ◆ Analyze data collected according to specified standards to ensure the equipment meet the standard for commissioning ◆ Use efficiently general electrical and mechanical equipment repairing and testing instruments and a range of instruments and tools specialized for overhead feeder testing <p>6.3 Professionalism in inspecting, testing and commissioning the railway overhead feeder system equipment</p> <ul style="list-style-type: none"> ◆ Inspect, test and commission the railway overhead feeder system equipment according to the standards and requirements for work safety, health, environmental protection and quality management of railway works ◆ Understand the safety guidelines as required by the law and codes of practice in inspecting, testing and commissioning the railway overhead feeder system equipment

7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to inspect, test and commission safely and efficiently the main line system, control circuits and protecting devices of the railway overhead feeder system, including conducting inspections on live and/or isolated condition, according to guidelines, drawings and standards, and ensure that the system equipment performance meet the specified standards.</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of overhead feeder system and equipment.</p>