

1. Title	Undertake component function tests for railway overhead feeder systems after installation
2. Code	EMRAIN405A
3. Range	Undertake preliminary inspection and function tests for railway overhead feeder system components after installation at power control rooms, switch rooms and railway premises with overhead lines according to installation instructions, and record the data as reference for testing.
4. Level	4
5. Credits	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles and function test standards for railway overhead feeder system and equipment</p> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of railway overhead feeder system, 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 of component function tests for railway overhead feeder system and equipment <p>6.2 Methods and procedures of function tests for railway overhead feeder system and equipment</p> <ul style="list-style-type: none"> ◆ Able to read the installation instructions of railway overhead feeder system and equipment and select information for component function tests ◆ Undertake component function tests for railway overhead feeder system according to installation instructions and relevant information including standards and operational guidelines for equipment ◆ Maintain a proper and accurate record of certain component function tests and measurements ◆ Use general E&M equipment checking instruments and certain dedicated instruments for function tests of railway overhead feeder system efficiently ◆ Enforce sufficient safety and protective measures for undertaking railway overhead feeder equipment function tests <p>6.3 Professionalism in component function tests for railway overhead feeder system and equipment</p> <ul style="list-style-type: none"> ◆ Undertake component tests for railway overhead feeder system after installation 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 handling component function tests for railway overhead feeder system and equipment

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to undertake safely and efficiently preliminary inspection and function tests for railway overhead feeder system after installation according to installation instructions and relevant information, and to measure the data from such tests and maintain an accurate record.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of overhead power supply system and equipment.