

1. Title	Inspect, and perform system function tests and running tests for overhauled trains		
2. Code	EMRAMA401A		
3. Range	Perform system function tests and running tests for overhauled trains at train maintenance centres or railway main line according to different equipment functions, and record the data as performance reference.		
4. Level	4		
5. Credits	7		
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Items, scope and standards for the inspection, function test and running test for overhauled trains</p> <ul style="list-style-type: none"> ◆ Understand the items, scope and standards for the inspection of overhauled trains ◆ Understand the items, scope and standards for the function tests for all major systems ◆ Understand the items, scope and standards for the running test of trains <p>6.2 Methods and procedures of the inspection, function test and running test for overhauled trains</p> <ul style="list-style-type: none"> ◆ Perform visual inspection, insulation tests and function tests for the electrical system equipment of trains ◆ Perform visual inspection, insulation tests and function tests for the traction system control equipment ◆ Perform function tests for the brake control system of trains in standstill state ◆ Perform function tests for the pneumatic system of trains and record the pressure of the main pipe line ◆ Perform visual inspection, insulation tests and function tests for the inverter ◆ Perform function tests for the air-conditioning system ◆ Perform main line running tests for trains according to the operation pattern of the railway main line, and measure and record data for the train speed of different sections, traveling time required, electric current during running and brake performance ◆ Use instruments and tools for measuring and checking general E&M, pneumatic and air-conditioning equipment efficiently ◆ Enforce safety and protective measures comprehensively for performing function tests and running tests <p>6.3 Professionalism in inspection, function test and operation test for overhauled trains</p> <ul style="list-style-type: none"> ◆ Perform inspection, function test and running test for overhauled trains 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 the inspection, function test and running test for overhauled trains 		

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to perform function tests for all systems of trains safely and efficiently according to the standards for testing equipment functions, and to measure the data from such tests and maintain an accurate record; and (ii) Capable to perform main line running tests for trains, and measure and record data generally required for train operation.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of major train equipment.