

1. Title	Light repair and performance tests for electric trains
2. Code	EMRAMA301A
3. Range	Use correct procedures and methods to perform light repair for electric trains by referring to repairing instructions at train maintenance centres and capable to test the performance of electric trains after light repair.
4. Level	3
5. Credits	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles of the main system and equipment of electric trains and their light repair standards</p> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of different main systems and equipment of electric trains ◆ Understand the scope and standards for different levels of light repair <p>6.2 Method and procedures of performing light repair and performance tests for electric trains</p> <ul style="list-style-type: none"> ◆ Able to read repairing instructions and select suitable information for use ◆ By referring to different levels of light repair instructions for trains, capable to perform light repair for mechanical equipment like train bogies, gangways, couplers, brake system devices, train door equipment and air-conditioning equipment, etc. including the following work procedures: <ul style="list-style-type: none"> • Visual inspection • Measure and replace worn-out parts • Replace strainer ◆ Add or refill lubricating oil ◆ Capable to perform light repair for the electrical equipment of trains including power system equipment, traction control system equipment and main transformer equipment, etc. by referring to different levels of light repair instructions for trains ◆ Capable to perform light repair for the pneumatic equipment of trains including air compressor, pipeline device and pneumatic device, etc. by referring to different levels of light repair instructions for trains ◆ By referring to light repair instructions for electric trains, capable to test the performance and operation of trains to appraise their functional performance after performing light repair for trains ◆ Capable to make effective use of tools and instruments for repairing and checking general electrical and mechanical equipment

	<p>6.3 Professionalism in handling light repair and performance tests for electric trains</p> <ul style="list-style-type: none"> ◆ Capable to follow the requirements of repairing instructions to ensure that the procedures and quality of light repair are up to standard ◆ Capable to understand the safety guidelines as required by the law and codes of practice in handling light repair and performance tests for electric trains
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> (i) Capable to perform light repair for the mechanical, electrical or pneumatic systems of trains correctly and efficiently by referring to light repair instructions; and (ii) Capable to test the performance of trains effectively after light repair.
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic electrical, mechanical, pneumatic and air-conditioning knowledge.</p>