

1. Title	Light repair and performance tests for diesel locomotive
2. Code	EMRAMA302A
3. Range	Use correct procedures and methods to perform light repair for diesel locomotive by referring to repairing instructions at train servicing centres and capable to test the performance of diesel locomotive after light repair.
4. Level	3
5. Credits	5
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles of the main system and equipment of diesel locomotive and their light repair standards</p> <ul style="list-style-type: none"> <li>◆ Understand the structure and working principles of different main systems and equipment of diesel locomotive</li> <li>◆ Understand the scope and standards for different levels of light repair</li> </ul> <p>6.2 Method and procedures of performing light repair and performance tests for diesel locomotive</p> <ul style="list-style-type: none"> <li>◆ Able to read repairing instructions and select suitable information for use</li> <li>◆ By referring to different levels of light repair instructions for diesel locomotive, capable to perform light repair for the diesel engine and control equipment of diesel locomotive including the following work procedures: <ul style="list-style-type: none"> <li>• Visual inspection</li> <li>• Measure and replace worn-out parts</li> <li>• Replace strainers</li> </ul> </li> <li>◆ Add or refill lubricating oil</li> <li>◆ Capable to perform light repair for the mechanical equipment of diesel locomotive including bogie, coupler, brake system device, etc. by referring to different levels of light repair instructions for diesel locomotive</li> <li>◆ Capable to perform light repair for the electrical equipment of diesel locomotive including generator, traction control system, auxiliary generator, control circuit equipment and protection devices, etc. by referring to different levels of light repair instructions for diesel locomotive</li> <li>◆ Capable to perform light repair for the pneumatic equipment of diesel locomotive including air compressor, pipeline device and pneumatic device, etc. by referring to different levels of light repair instructions for diesel locomotive</li> </ul>

	<ul style="list-style-type: none"> <li>◆ By referring to light repair instructions for diesel locomotive, capable to test the performance and operation of diesel locomotive to appraise its functional performance after performing light repair for diesel locomotive</li> <li>◆ Capable to make effective use of tools and instruments commonly used for repairing and checking electrical and mechanical equipment</li> <li>◆ Capable to follow the requirements of repairing instructions to ensure that the procedures and quality of light repair are up to standard</li> <li>◆ Capable to understand the safety guidelines as required by the law and codes of practice in handling light repair and performance tests for diesel locomotive</li> </ul>
<p>6.3 Professionalism in handling light repair and performance tests for diesel locomotive</p>	
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> <li>(i) Capable to perform light repair for the engine, mechanical, electrical or pneumatic systems of diesel locomotive correctly and efficiently by referring to light repair instructions; and</li> <li>(ii) Capable to test the performance of diesel locomotive effectively after light repair.</li> </ul>
<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 and pneumatic knowledge.</p>