

1. Title	Repair the faults in electric multi-car train door systems
2. Code	EMRAOR305A
3. Range	Check the circuits and pneumatic pipe lines, and test the train door system performance according to the fault report and fault symptoms to identify the fault parts; handle and remove the faults in the actual situation at train maintenance centres or during train operations.
4. Level	3
5. Credits	5
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles of electric multi-car train door systems and equipment and basic fault finding techniques</p> <ul style="list-style-type: none"> <li>◆ Understand the working principles of the electric multi-car train door systems and equipment, including <ul style="list-style-type: none"> <li>• Train door control circuits</li> <li>• Train door electric, pneumatic and mechanical equipment</li> <li>• Train door closing status confirmation and interlock devices</li> </ul> </li> <li>◆ Master the basic fault finding techniques</li> </ul> <p>6.2 Methods and procedures of identifying and repairing the faults in electric multi-car train door systems and equipment</p> <ul style="list-style-type: none"> <li>◆ Able to read the electrical, mechanical and pneumatic engineering drawings and check the circuits, pneumatic pipe lines and mechanical devices systematically and efficiently</li> <li>◆ Identify, remove and handle the faults in train door systems and equipment according to the information and fault symptoms</li> <li>◆ Use general electrical, pneumatic and mechanical device repairing and testing instruments and tools efficiently</li> </ul> <p>6.3 Professionalism in repairing faults in electric multi-car train door systems and equipment</p> <ul style="list-style-type: none"> <li>◆ Understand the safety guidelines as required by the law and codes of practice in eliminating faults in electric multi-car train door systems and equipment</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to identify and remove the faults in train door control circuits systematically and efficiently according to the fault symptoms;</p> <p>(ii) Capable to identify and remove the faults in train door closing status according to the fault symptoms.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic electrical and mechanical knowledge.