

1. Title	Repair the faults in the train line and pneumatic pipe line controlling the whole train
2. Code	EMRAOR307A
3. Range	Identify and repair the faults in the train line and pipe line according to the fault report and fault symptoms at train maintenance centres or during of train operations.
4. Level	3
5. Credits	4
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles of the control and protection system of the train line and pneumatic pipe line controlling the whole train and basic fault finding techniques</p> <ul style="list-style-type: none"> <li>◆ Understand the structure and working principles of the train line control and protection system for the whole train</li> <li>◆ Understand the structure and working principles of the pneumatic pipe line control and protection system for the whole train</li> <li>◆ Master the basic fault finding techniques</li> </ul> <p>6.2 Methods and procedures of finding and repairing the faults in the train line and pneumatic pipe line controlling and protecting the whole train</p> <ul style="list-style-type: none"> <li>◆ Able to read the electrical and pneumatic engineering drawings and check the train line and pneumatic pipe line systematically and efficiently</li> <li>◆ Check and test the control and protection train line running through the whole train and relevant equipment to find the root causes of faults according to the information and fault symptoms</li> <li>◆ Use general electrical and pneumatic device repairing and testing instruments and tools efficiently</li> <li>◆ Check the protection pneumatic pipe line running through the whole train and relevant equipment to find the root causes of faults according to the information and fault symptoms</li> <li>◆ Remove and handle the faults after identifying the fault train line, pipe line, equipment or component</li> </ul> <p>6.3 Professionalism in repairing faults in the train line and pneumatic pipe line controlling the whole train</p> <ul style="list-style-type: none"> <li>◆ Understand the safety guidelines as required by the law and codes of practice in removing faults in the control and protection loops of train line and pneumatic pipe line</li> </ul>

7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> <li>(i) Capable to identify a fault in a train door protection loop systematically and efficiently according to the fault symptoms;</li> <li>(ii) Capable to identify, remove and handle a fault in a train protection brake loop (including train line loop and pneumatic pipe line loop) systematically and efficiently according to the fault symptoms.</li> </ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of electrical and pneumatic equipment.</p>