

1. Title	Repair the faults in train bogies, gangways and couplings
2. Code	EMRAOR306A
3. Range	Check and test the performance of train bogies, gangways and couplers according to the fault report and fault symptoms to identify the fault parts; handle and remove the faults according to 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 train bogies, gangways and couplings and basic fault finding techniques</p> <ul style="list-style-type: none"> <li>◆ Understand the structure and working principles of the train bogies, gangways and couplers, including <ul style="list-style-type: none"> <li>• Mechanical structure of bogies</li> <li>• Suspension and shock absorption equipment</li> <li>• Devices inside and outside gangways</li> <li>• Automatic couplers</li> <li>• Bar couplers</li> </ul> </li> <li>◆ Master the basic fault finding techniques</li> </ul> <p>6.2 Methods and procedures of finding and repairing the faults in train bogies, gangways and couplings</p> <ul style="list-style-type: none"> <li>◆ Able to read the mechanical engineering drawings and check the mechanical devices systematically and efficiently</li> <li>◆ Check the train bogies to find the root causes of faults according to the information and fault symptoms</li> <li>◆ Check the train gangways to find the root causes of faults according to the information and fault symptoms</li> <li>◆ Check the train couplers to find the root causes of faults according to the information and fault symptoms</li> <li>◆ Capable to perform fault findings on equipment or component and subsequently remove the faults</li> <li>◆ Use general mechanical device repairing and testing instruments and tools efficiently</li> </ul> <p>6.3 Professionalism in repairing faults in train bogies, gangways and couplers</p> <ul style="list-style-type: none"> <li>◆ Understand the safety guidelines as required by the law and codes of practice in repairing faults in train bogies, gangways and couplers</li> </ul>

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is:  (i) Capable to identify a decoupling fault in an automatic couplers systematically and efficiently according to the fault symptoms;  (ii) Capable to identify the root cause of fault of having some noise near the train bogie according to the fault symptoms.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic mechanical knowledge.