

1. Title	Maintain electric multi-car door systems
2. Code	EMRAMA305A
3. Range	Maintain electric multi-car door system and devices at train maintenance centres according to maintenance instructions by applying maintenance techniques for mechanical, electrical and pneumatic equipment.
4. Level	3
5. Credits	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles of electric multi-car door systems and equipment and their maintenance standards</p> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of the electric multi-car door systems and equipment ◆ Understand the scope and standards for different levels of maintenance <p>6.2 Method and procedures of maintaining electric multi-car door systems and equipment</p> <ul style="list-style-type: none"> ◆ Able to read maintenance instructions and select suitable information for use ◆ Capable to maintain and adjust train door mechanical devices including the door frames and connecting components, isolator and locking devices according to maintenance instructions by applying maintenance techniques for mechanical equipment ◆ Capable to maintain and test the electric door actuator or pneumatic door actuator according to maintenance instructions by applying maintenance techniques for electrical and pneumatic equipment ◆ Capable to maintain train door circuit devices including door open/close circuit, door loop protection device, relay, door status indication circuit and isolating switch according to maintenance instructions by applying maintenance techniques for electrical equipment and wiring ◆ Capable to make effective use of typical tools and instruments for maintaining electrical, mechanical, and pneumatic equipment <p>6.3 Professionalism in maintaining the electric multi-car door systems and equipment</p> <ul style="list-style-type: none"> ◆ Capable to follow the requirements of maintenance instructions to ensure that the procedures and quality of maintenance are up to standard ◆ Understand the safety guidelines and codes of practice for train engineering in handling maintenance for the electric multi-car door systems and equipment

7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> (i) Capable to install and adjust the train door mechanical devices correctly and efficiently according to maintenance instructions; (ii) Capable to service and test the electrical and pneumatic equipment of electric train doors correctly and efficiently according to maintenance instructions; and (iii) Capable to test the train door loop protection devices correctly and efficiently.
8. Remarks	<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>