

1. Title	Install mechanical equipment of trains
2. Code	EMRAIN302A
3. Range	Install mechanical equipment of trains according to installation instructions and drawings, and adjust and set such equipment.
4. Level	3
5. Credits	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Construction and basic working principles of mechanical equipment of trains</p> <ul style="list-style-type: none"> ◆ Understand the construction and basic working principles of mechanical equipment of trains, including <ul style="list-style-type: none"> • Bogies • Gangways • Couplers • Brake system devices • Wheel slide protection devices • Train door and door loop protection devices <p>6.2 Methods and procedures of installing and adjusting mechanical equipment of trains</p> <ul style="list-style-type: none"> ◆ Able to read installation instructions and mechanical engineering drawings and select suitable information for use ◆ Install and align major mechanical equipment of trains according to the installation instructions and drawings ◆ Adjust and test major mechanical equipment of trains according to the installation instructions and drawings ◆ Use typical tools and instruments for installing and checking mechanical equipment of trains effectively <p>6.3 Professionalism in installing mechanical equipment of trains</p> <ul style="list-style-type: none"> ◆ Capable to follow the requirements of installation instructions to ensure that the procedures and quality of installation are up to standard ◆ Understand the safety guidelines and codes of practice for railway engineering in handling installation and adjustment for mechanical equipment of trains
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to install, align and adjust the train bogies, gangways and couplers correctly;</p> <p>(ii) Capable to install and align the frictional brake systems of trains correctly; and</p> <p>(iii) Capable to install the train door equipment and adjust and test the train door loop protection devices correctly.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic bench fitting techniques and knowledge of installation.