

1. Title	Formulate installation instructions for pneumatic equipment of trains
2. Code	EMRAIN502A
3. Range	Formulate installation instructions for pneumatic equipment of trains by referring to their design and the installation guidelines provided by the manufacturer, and considering the overall installation of trains.
4. Level	5
5. Credits	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Design and installation principles of pneumatic system equipment of trains</p> <ul style="list-style-type: none"> ◆ Be familiar with the structure and design of pneumatic system equipment of trains ◆ Apply the installation guidelines provided by the manufacturer ◆ Master the standard for installing pneumatic equipment of trains ◆ Be familiar with the applications of instruments and tools commonly used for installing pneumatic equipment of trains ◆ Design and arrange special tools for installation <p>6.2 Method and procedures of formulating installation instructions for pneumatic equipment of trains</p> <ul style="list-style-type: none"> ◆ By referring to the design of air compressors of trains and the installation guidelines provided by the manufacturer, and considering the overall installation of trains, capable to draft installation instructions for the air compressors of trains and their control and protection equipment, including: <ul style="list-style-type: none"> • Installation procedures • Installation standards • Adjustments and preliminary function tests • Points to note during installation ◆ Capable to test the draft installation instructions ◆ Capable to amend and formulate installation instructions for air compressors of trains and their control and protection equipment ◆ Capable to draft, test and formulate installation instructions for the pipe line installations and protection equipment of trains ◆ Capable to draft, test and formulate installation instructions for the various pipe line and pneumatic equipment of the pneumatic systems of trains ◆ Capable to draft, test and formulate installation instructions for pressure and leak tests of the entire pneumatic system of trains

	<p>6.3 Professionalism in formulating installation instructions for pneumatic system equipment of trains</p> <ul style="list-style-type: none"> ◆ Capable to formulate installation instructions and standards for pneumatic equipment of trains according to the standards and requirements for work safety, health, environmental protection and quality management of railway works ◆ Understand the safety guidelines as required by the law and codes of practice in formulating installation instructions for pneumatic equipment of trains
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> (i) Capable to draft installation instructions for specified pneumatic equipment of trains in compliance with the installation requirements for train equipment; and (ii) Capable to test the effectiveness of the draft installation instructions and make amendments effectively.
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses professional knowledge of pneumatic system engineering and the pneumatic equipment of trains.</p>