

1. Title	Supervise and manage train inspection, commissioning and testing work
2. Code	EMRAIT506A
3. Range	Apply the knowledge and skills of supervision, coordination and support and the familiarity with train inspection, commissioning and testing work to monitor the inspection, commissioning and testing of train equipment and to manage team operation so as to ensure quality and efficiency.
4. Level	5
5. Credits	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Procedures, operation modes of units and supervisory and management skills of inspecting, commissioning and testing train equipment</p> <ul style="list-style-type: none"> <li>◆ Master the methods and processes of inspecting, commissioning and testing of major train equipment, relevant quality requirements, and check points</li> <li>◆ Understand the modes and culture of operation involved in train inspection, commissioning and testing work</li> <li>◆ Possess the knowledge and skills of supervising, coordinating, supporting and managing the electrical and mechanical works of trains</li> <li>◆ Master the techniques of analyzing and assessing testing and commissioning data, and of evaluating train equipment performance</li> </ul> <p>6.2 Procedures of monitoring and managing train inspection, commissioning and testing work</p> <ul style="list-style-type: none"> <li>◆ Apply the knowledge and skills of supervision, coordination and support and the familiarity with the processes and standards of inspecting, commissioning and testing train equipment to monitor quality control points so as to ensure quality, efficiency and standard</li> <li>◆ Maintain adequate coordination and communication with the commissioning team, the design team and manufacturers so as to ensure smooth handling of inspection, commissioning and testing work</li> <li>◆ Analyze and assess efficiently the testing and commissioning data, and evaluate train equipment performance for confirmation of acceptance</li> <li>◆ Review the inspection, commissioning and testing processes for improving the operation of working teams</li> <li>◆ Review and improve the organization of the inspection, commissioning and testing teams with reference to quality management models</li> </ul>

	<ul style="list-style-type: none"> <li>◆ Formulate plans for enhancing persistently the quality and efficiency of inspection, commissioning and testing work, including: <ul style="list-style-type: none"> <li>• Negotiating with staff on formulation of training programmes and providing adequate training for them</li> <li>• Establishing effective communication channels</li> <li>• Planning for updating and upgrading of equipment</li> </ul> </li> </ul> <p>6.3 Professionalism in supervising and managing the inspection, commissioning and testing of train system equipment</p> <ul style="list-style-type: none"> <li>◆ Supervise and manage the inspection, commissioning and testing of train system equipment according to the standards and requirements for work safety, health, environmental protection and quality management of railway works</li> <li>◆ Understand the safety guidelines as required by the law and codes of practice in supervising and managing the inspection, commissioning and testing of train system equipment</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to supervise and manage efficiently train inspection, commissioning and testing work to ensure quality and efficiency; and</p> <p>(ii) Capable to formulate plans for enhancing persistently the quality and efficiency of supervising and managing train inspection, commissioning and testing work.</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses expertise and supervisory skills of electrical and mechanical engineering.</p>