

1. Title	Supervise the inspection, commissioning and testing of railway signal and control system
2. Code	EMRAIT413A
3. Range	Supervise the inspection, commissioning and testing of the railway signal and control system at railway premises, control rooms and signal switch rooms so as to ensure quality, standard and efficiency of work.
4. Level	4
5. Credits	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Procedures, operation modes of units and supervisory skills of inspecting, commissioning and testing railway signal and control system</p> <ul style="list-style-type: none"> <li>◆ Master the inspection, commissioning and testing methods and processes of railway signal and control system, relevant quality requirements, and control point selection techniques</li> <li>◆ Understand the operation modes and culture of units involved in the inspection, commissioning and testing of railway signal and control system</li> <li>◆ Possess the knowledge and skills of supervising and supporting railway signal and control system works</li> </ul> <p>6.2 Methods and procedures of supervising the inspection, commissioning and testing of railway signal and control system</p> <ul style="list-style-type: none"> <li>◆ Supervise and support the inspection, commissioning and testing of railway signal and control system to ensure quality, standard and efficiency of work. Supervisory procedures include: <ul style="list-style-type: none"> <li>• Selecting and monitoring quality control points</li> <li>• Analyzing the causes of non-compliance with standard and formulating improvement measures</li> <li>• Maintaining adequate coordination and communication in the inspection, commissioning and testing processes</li> </ul> </li> <li>◆ Formulate plans for maintaining persistently the quality of inspection, commissioning and testing work and for improving its efficiency, including: <ul style="list-style-type: none"> <li>• Providing adequate training for staff</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 the inspection, commissioning and testing of railway signal and control system equipment</p> <ul style="list-style-type: none"> <li>◆ Supervise the inspection, commissioning and testing of railway signal and control 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 the inspection, commissioning and testing of railway signal and control system equipment</li> </ul>

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is:  (i) Capable to supervise and support efficiently the inspection, commissioning and testing of the railway signal and control system to ensure compliance with safety codes and standards, and quality and efficiency requirements; to formulate plans for maintaining persistently the quality of inspection, commissioning and testing work and for improving its efficiency.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of the signal and control system and equipment and basic knowledge and skills of supervision.