1. Title	Inspect, test and commission railway traffic management system
2. Code	EMRAIT409A
3. Range	Inspect, test and commission railway traffic management system at railway premises, railway traffic control rooms and signal switch rooms, including computer control equipment and information network equipment.
4. Level	4
5. Credits	6
6. Competency	<u>Performance Requirements</u> 6.1 Structure and working principles of railway traffic management system ♦ Understand the structure and working principles of the control programming system of the railway traffic management system, including: • Signal and control monitor system • Train route and programming control system • Train location indication and communication system • Train operation control system • Data collection and management reporting system • Interface devices ♦ Understand the structure and working principles of the network system of the railway traffic management system, including: • LAN • WAN • Signal transmission equipment • Interface devices ♦ Understand the scope and standards for inspection, testing and commissioning of the railway traffic management system 6.2 Methods and procedures of inspecting, testing and commissioning railway traffic management system and equipment ♦ Able to read the inspection, testing and commissioning guidelines and circuit diagrams and select useful information ♦ Calculate and compile the details for testing and commissioning according to relevant information ♦ Inspect, test and commission the control programming system and relevant equipment of the railway traffic management system according to guidelines and standards, and record the data from tests ♦ Inspect, test and commission the network system and relevant equipment of the railway traffic management system according to guidelines and standards, and record the data from tests ♦ Use general electrical and electronic equipment testing instruments and tools efficiently

	6.3	Professionalism in inspecting, testing and commissioning railway traffic management system and equipment	♦	Inspect, test and commission the railway traffic management system and equipment 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 inspecting, testing and commissioning the railway traffic management system and equipment
7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to inspect, test and commission safely and efficiently the railway traffic management system according to instructions, relevant programme and standards; and (ii) Capable to record the data from tests correctly and effectively.			
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of electronics, computer and communication.			