1. Title	Fix the faults in the railway traffic management system
2. Code	EMRAOR407A
3. Range	Identify and repair the faults in the railway traffic management system at railway premises, railway traffic control rooms and signal switch rooms.
4. Level	4
5. Credits	6
6. Competency	<u>Performance Requirements</u> 6.1 Structure and working principles of the 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 6.2 Methods and procedures of identifying and repairing the faults in the railway traffic management system equipment ♦ Able to read the engineering drawings of the railway signal system and network and check the railway traffic management system equipment systematically and efficiently ♦ Analyze the information and fault symptoms and check the control programming system of the railway traffic management system to find the root causes of faults ♦ Analyze the information and fault symptoms and check the network system of the railway traffic management system to identify the root causes of faults ♦ Consult information recording equipment to help identify the roots of faults in the network system ♦ Repair the faults after identifying the fault equipment or component ♦ Use general electronic and network system equipment repairing and testing instruments efficiently

	6.3	Professionalism in identifying and repairing the faults in the railway traffic management system	♦	Identify and repair the faults in the railway traffic management system 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 identifying and repairing the faults in the railway traffic management system
7. Assessment Criteria	The integrated outcome requirement of this unit of competency is:				
	(i)	Capable to identify the faults in the control programming system of the railway traffic management system within a reasonable period of time according to the fault symptoms; and		
	(ii)	Capable to identify the faults in the network system of the railway traffic management system within a reasonable period of time according to the fault symptoms.		
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of electronics and the network system.				