1. Title	Install computer control equipment and information network equipment of railway traffic management system
2. Code	EMRAIN406A
3. Range	Install traffic management system for the railway signal and control system at railway premises, railway traffic control rooms and signal switch rooms, including computer control equipment and information network equipment, and test, adjust and set such equipment.
4. Level	4
5. Credits	6
6. Competency	Performance Requirements

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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 control system, including:
- LAN
- WAN
- Signal transmission equipment
- Interface devices

6.2 Installation methods and procedures of railway traffic management system and equipment

♦ Able to read the installation guidelines and circuit diagrams and select useful information

♦ Install the control programming system and relevant equipment of the railway traffic management system according to installation guidelines and diagrams, and perform suitable adjustments and tests

♦ Install the network system and relevant equipment of the railway traffic management system according to installation guidelines and diagrams, and perform suitable adjustment and testing

♦ Use installation and checking instruments and tools for general electrical, electronic, computer and communication equipment efficiently

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	6.3	Professionalism in installing railway traffic management system and equipment	♦	Install the railway traffic control 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 installing railway traffic management system and equipment
7. Assessment Criteria	The integrated outcome requirement of this unit of competency is:			
	(i) Capable to install computer control equipment and information network equipment of railway traffic management system safely and efficiently according to installation requirements, and perform testing and adjustment in coordination with the terminals at different stations so as to ensure the safety of the entire railway traffic management system.			
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.			