1. Title	Formulate the inspection, commissioning and testing guidelines and standards for the pneumatic equipment of trains
2. Code	EMRAIT502A
3. Range	Refer to the design of the pneumatic equipment of trains and the inspection and testing guidelines of manufacturers and undertake site inspection, measurement and tests of the equipment so as to formulate the inspection, commissioning and testing guidelines and standards for the pneumatic equipment of trains.
4. Level	5
5. Credits	9
6. Competency	Performance Requirements
	 6.1 Design, working principles and standards of the pneumatic system equipment of trains Know about the application of the inspection and testing guidelines of manufacturers Master the techniques of working out the inspection, commissioning and testing standards for the pneumatic system equipment of trains Understand the application of typical pneumatic equipment measuring and testing instruments and tools
	 6.2 Methods and procedures of formulating the inspection, commissioning and testing guidelines for the pneumatic system equipment of trains Testing procedures and standards of equipment setting Test the drafted inspection, commissioning and testing guidelines and standards Analyze data and modify and formulate the inspection, commissioning and testing guidelines and standards for the air compressors and control and protection and data taking Analyze data and modify and formulate the inspection, commissioning and testing guidelines and standards for the air compressors and control and protection and data taking Analyze data and modify and protection equipment of trains

	 Draft, test and formulate the inspection, commissioning and testing guidelines and standards for the pipe line installations and protection equipment of trains Draft, test, analyze data and formulate the inspection, commissioning and testing guidelines and standards for various pipe line and pneumatic equipment of the pneumatic systems of trains Draft, test, analyze data and formulate the procedures and standards for pressure and leak tests of the entire pneumatic system of trains
	 6.3 Professionalism in formulating the inspection, commissioning and testing guidelines for the pneumatic system equipment of trains according to the standards and requirements for work safety, health, environmental protection and quality management of railway works Commissioning and testing guidelines for the pneumatic system equipment of practice in formulating the inspection, commissioning and testing guidelines of practice in formulating the inspection, commissioning and testing guidelines of practice in formulating the inspection, commissioning and testing guidelines for the pneumatic system equipment of trains
7. Assessment Criteria	 The integrated outcome requirement of this unit of competency is: (i) Capable to draft a set of inspection, commissioning and testing guidelines and standards for the pneumatic devices of trains according to commissioning requirements; and (ii) Capable to test the effectiveness of the drafted inspection, commissioning and testing guidelines and standards efficiently; analyze data and conduct reviews and modifications.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses professional knowledge of pneumatic engineering and is familiar with the pneumatic devices of trains.