1. Title	Repair the faults in electric traction control systems of trains
2. Code	EMRAOR302A
3. Range	Identify and repair the faults in electric traction control systems and equipment of trains at train maintenance centres or during operation of trains.
4. Level	3
5. Credits	9
6. Competency	Performance Requirements
	 Working principles of electric traction control systems and equipment of trains and equipment of trains and basic fault finding techniques Understand the structure and working principles of the electric traction control systems and equipment of trains Be familiar with the main circuits and control circuits of the electric traction control systems of trains Master the basic fault finding techniques
	 6.2 Methods and procedures of finding and repairing the faults in electric traction control systems of trains ♦ Check the circuits and equipment of the electric traction control systems of trains to find the root causes of faults according to the fault symptoms • Main circuits • Control circuits and equipment • Electronic control equipment • Protection equipment • Regenerative braking devices • Repair the faults effectively after identifying the fault in equipment or components • Use general electrical repairing and testing instruments and tools efficiently
	6.3 Professionalism in repairing faults in electric traction control systems of trains • Understand the safety guidelines as required by the law and codes of practice in removing faults in electric traction control systems of trains

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is:
	(i) Capable to identify the faults in the control circuits of the electric traction control systems of trains within a reasonable period of time according to the fault symptoms;
	(ii) Capable to identify the faults in the electronic control equipment of the electric traction control systems of trains within a reasonable period of time according to the fault symptoms; and
	(iii) Capable to identify the faults in the protection equipment of the electric traction control systems of trains 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 basic knowledge of electricity.