1. Title	Design and analyze electronic control circuits
2. Code	EMRADE502A
3. Range	Fully master the electronic control theory to design and analyze the functions and performance of electronic switch control circuits, logic circuits and operational amplifier control circuits and apply to the design of electronic control equipment of trains.
4. Level	5
5. Credits	6
6. Competency	Performance Requirements
	 6.1 Design and analyze electronic control circuits including 6.1 Design and analyze electronic control circuits, including 6.1 Switch circuits, including 6.1 Switch circuits 6.2 Logic control circuit 6.3 Logic control circuit 6.4 Logic control circuit 6.5 Logic control circuit 6.6 Logic control circuit 6.7 Logic control circuit 6.8 Logic control circuit 6.9 Logic control circuit 6.1 Logic control circuit 6.1 Logic control circuits and their reaction to frequency 6.1 Logic control circuits 6.2 Logic control circuits 6.3 Logic control circuit 6.4 Logic control circuit 7.4 Logic control circuit <
	 6.2 Methods and procedures of designing electronic control circuits Design digital differential and integral circuits Design electric current/voltage and electric voltage / current converters Design instrument amplifiers Design electronic control equipment circuits of trains
7. Assessment Criteria	 The integrated outcome requirement of this unit of competency is: (i) Capable to design electronic control equipment circuits of trains efficiently, including logic switch and control circuits, digital and electric current/voltage converters and amplifier circuits, according to the functional requirements of the equipment.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of electronic control circuits.