

1. Title	Repair control and starter circuits of electrical machine systems
2. Code	EMELOR306A
3. Range	Follow motor system control, protection and starter circuit diagrams to investigate circuit component wear or damage and perform circuit component repair and maintenance in switchboard or control boxes.
4. Level	3
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of motor control circuit operation, repair and maintenance</p> <ul style="list-style-type: none"> ◆ Understand the working principles of control and starter circuits of various kinds of single-phase and three-phase electrical machine systems ◆ Master motor control, protection and starter circuit diagrams such as: <ul style="list-style-type: none"> • Motor operation control, protection and starter circuit diagram • Control component panel layout and wiring diagrams ◆ Master the methods of repairing and maintaining motor control, protection and starter circuit components <p>6.2 Implement methods and procedures of repairing and maintaining motor control circuits</p> <ul style="list-style-type: none"> ◆ Perform repair and maintenance for motor control, protection and starter circuit components according to their wearing and damage conditions, including examining, testing, cleaning, replacing and tuning them ◆ Perform electrical and operation tests for the circuits after repair <p>6.3 Professionalism in handling motor control and starter circuits</p> <ul style="list-style-type: none"> ◆ Follow the Code of Practice for the Electricity (Wiring) Regulations to repair and maintain various kinds of motor control, protection and starter circuits safely
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to repair and maintain various kinds of motor control, protection and starter circuits according to the wearing and damage conditions of their components; and</p> <p>(ii) Capable to perform electrical and operation tests for various kinds of motor control, protection and starter circuits according to wiring diagrams.</p>
8. Remarks	