1. Title	Repair and rewind single-phase motors
2. Code	EMELIN201A
3. Range	Repair and rewind single-phase motors at electric motor repair workshops.
4. Level	2
5. Credit	6
6. Competency	Performance Requirements 6.1 Knowledge of single-phase motors Understand the construction, types, working principles and scope of application of single-phase motors, including: Split-phase induction motor Split-phase capacitance motor Shaded-pole motor Repulsion motor Universal-type motor Understand the winding design of single-phase motor, including number of slots for each pole, number of winds,
	method of winding connection, etc. ◆ Understand guidelines on repairing and rewinding single-phase motors
	 ♦ Examine, repair and rewind single-phase motors ♦ Examine the faults of single-phase motor according to working guidelines, such as: • short circuit fault • open circuit fault • earth fault • wrong wiring • bearing fault Dismantle and assemble single-phase motor • Examine centrifugal switch and replace bearing • Master the techniques of repairing single-phase motors, know the causes of faults and repair them according to procedures • Rewind single-phase motors according to working guidelines • Hand wind and wind with wood former for single-phase motors • Rewind single-phase motors, including: • Dismantling electric motors and recording original
	winding information • Making wood formers for winding

	 Winding, coils setting, connecting north and south pole of coils Winding, wrapping and tappings Re-assembling Inspecting and testing Follow the regulations and safety guidelines for the industry to ensure that the rewound single-phase motors can be used safely
7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to repair and rewind single-phase motors according to working guidelines.
8. Remarks	