

1. Title	Repair air-conditioning system and control equipment
2. Code	EMCUOR305A
3. Range	Perform fault repair for air-conditioning systems and control equipment at servicing stations or worksites.
4. Level	3
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Construction and working principles of air-conditioning system and control equipment</p> <ul style="list-style-type: none"> ◆ Understand the construction and working principles of air-conditioning system and control equipment; including: <ul style="list-style-type: none"> • Refrigeration system of unitary air-conditioner • Air distribution equipment such as damper • Electric control equipment and circuit of air-conditioning system <p>6.2 Typical faults in air-conditioning system and control equipment and their repairing methods</p> <ul style="list-style-type: none"> ◆ Troubleshoot and repair refrigeration system of a unitary air-conditioner, including the following components <ul style="list-style-type: none"> • compressor • evaporator • condenser • refrigeration pipe • valves and related equipment ◆ Troubleshoot and repair air distribution equipment, such as damper of an air-conditioner ◆ Troubleshoot and repair control equipment and circuit of an air-conditioning system ◆ Use common repairing and testing instruments effectively
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to Troubleshoot and repair correctly and effectively the equipment in a unitary air-conditioning and refrigerating system.</p>
8. Remarks	This unit of competency is suitable for training air-conditioning engineering personnel. The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of electrical services.