

1. Title	Wire up and repair electrical control components and starting circuits for air-conditioning and refrigeration
2. Code	EMACOR203A
3. Range	Wire up and repair electrical control components and starting circuits for air-conditioning and refrigeration at installation or servicing stations under a certain degree of instruction.
4. Level	2
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Types, functions, construction and working principles of typical electrical control components for air-conditioning and refrigeration</p> <ul style="list-style-type: none"> ◆ Use Ohm's Law to calculate simple DC and AC circuits ◆ Understand the methods of wiring up single-phase and three-phase power systems ◆ Understand the types, functions, construction and working principles of overload protector, electro-magnetic contactor and timer relay <p>6.2 Methods and procedures of wiring up and repairing typical electrical control components and starting circuits for air-conditioning and refrigeration</p> <ul style="list-style-type: none"> ◆ Wire up and repair overload protector, electro-magnetic contactor and timer relay ◆ Wire up and repair self-holding electrical circuit, interlocking electrical circuit and sequential control strating circuit <p>6.3 Professionalism in wiring up and repairing typical electrical control components and starting circuits for air-conditioning and refrigeration</p> <ul style="list-style-type: none"> ◆ Follow the code of practice under the Electricity (Wiring) Regulations to wire upand repair typical electrical control components and starting circuits for air-conditioning and refrigeration safely
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to wire up and repair typical electrical control components and starting circuits for air-conditioning and refrigeration according to drawings; and</p> <p>(ii) Capable to follow relevant code of practice when carrying out electrical work.</p>
8. Remarks	This unit of competency is applicable to practitioners engaged in general installation and repair of air-conditioning and refrigeration electrical control systems.