

1. Title	Wire up electrical control circuit of a fan coil unit
2. Code	EMACIN202A
3. Range	Wire up electrical control circuit of a fan coil unit at installation sites.
4. Level	2
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles of typical simple electrical control circuits for air-conditioning and refrigeration</p> <ul style="list-style-type: none"> ◆ Understand the code of safety on electrical work, including: <ul style="list-style-type: none"> • Causes for accidents commonly seen in electrical work • Points to note for electrical work • Ways to prevent electric shock ◆ Calculate simple parallel and series DC circuits ◆ Understand the working principles of simple electrical control circuits of typical air-conditioning and refrigeration equipment ◆ Read simple electrical control circuits wiring diagrams for typical air-conditioning and refrigeration equipment <p>6.2 Methods and procedures for wiring up electrical control circuit of a fan coil unit</p> <ul style="list-style-type: none"> ◆ Use typical electrical measuring meters, including being able to: <ul style="list-style-type: none"> • Use multimeters to measure electric resistance and voltage of circuits • Use clamp type ammeter to measure current of circuits • Use insulation meter to measure insulation resistance of circuits ◆ Perform simple wiring and conduit installation, including being able to: <ul style="list-style-type: none"> • Follow the code of practice under the Electricity (Wiring) Regulations to select cables and flexible wires for the electrical installations • Follow the code of practice under the Electricity (Wiring) Regulations to select conduits, trunking and electrical devices commonly used for electrical installations • Follow the Electricity (Wiring) Regulations to perform simple wiring and conduit work • Wire up the electrical control circuits of the fan coil unit ◆ Use multimeters to check whether the electrical control circuit of the fan coil unit functions properly <p>6.3 Professionalism in wiring up electrical control circuit of a fan coil unit</p> <ul style="list-style-type: none"> ◆ Follow the code of practice under the Electricity (Wiring) Regulations to wire up electrical control circuit of a fan coil unit safely

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to wire up the electrical control circuit of a fan coil unit according to drawings; and (ii) Capable to follow relevant code of practice when performing electrical works.
8. Remarks	This unit of competency is applicable to practitioners engaged in wiring up of air-conditioning and refrigeration control circuits.