

1. Title	Test and commission automatic control system for air-conditioning and refrigeration
2. Code	EMACIT404A
3. Range	Apply specialized knowledge and skills to test and commission automatic control system for air-conditioning and refrigeration at places with air-conditioning and refrigeration systems, their control rooms or machine rooms.
4. Level	4
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of testing and commissioning automatic control system for air-conditioning and refrigeration</p> <ul style="list-style-type: none"> ◆ Understand the details and importance of testing and commissioning air-conditioning and refrigeration automatic control system ◆ the regulations and code of practice on testing and commissioning air-conditioning and refrigeration automatic control system <p>6.2 Methods and procedures of testing and commissioning automatic control system for air-conditioning and refrigeration</p> <ul style="list-style-type: none"> ◆ Carry out preparations for testing and commissioning the automatic control system for air-conditioning and refrigeration , including: <ul style="list-style-type: none"> • Check the sensor, controller and controlling equipment of the automatic control system for surface defects • Perform running test for the sensor, controller and controlling equipment of the automatic control system • Check whether the wiring of the electrical control system meets the design requirements • Measure to assure that the electrical wiring, insulation resistance and earthing protection of the equipment and components meet the design requirements • Check whether the voltage of power supply meets the design requirements ◆ Test and commission individual control systems, including: <ul style="list-style-type: none"> • Test and commission the dew point control system • Test and commission the room temperature and relative humidity control system • Test and commission the compressor protection system

	<ul style="list-style-type: none"> ◆ Test and commission the overall automatic control system for air-conditioning and refrigeration, including: <ul style="list-style-type: none"> • Test and commission the equipment interlock protection system • Test and commission the overall automatic control system for air-conditioning and refrigeration • Set the operating parameters of controllers <p>6.3 Professionalism in testing and commissioning automatic control system for air-conditioning and refrigeration</p> <ul style="list-style-type: none"> ◆ Perform testing and commissioning of automatic control system for air-conditioning and refrigeration according to legal requirements and codes of practice
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to apply specialized knowledge and skills to complete the testing and commissioning of overall automatic control system for air-conditioning and refrigeration.</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses general knowledge of overall automatic control system for air-conditioning and refrigeration.</p>