

1. Title	Perform basic installation of water systems for air-conditioning and refrigeration system
2. Code	EMACIN205A
3. Range	Perform basic installation of water systems for air-conditioning and refrigeration system at air-conditioning and refrigeration machine rooms or equipment installation sites under a certain degree of instruction.
4. Level	2
5. Credit	5
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Functions and layout plan for typical equipment of water systems for air-conditioning and refrigeration system</p> <ul style="list-style-type: none"> ◆ Identify fan coil unit, air handling unit, water pump, various types of pipe fittings and valves ◆ Understand the functions of the above-mentioned equipment ◆ Read equipment simple layout plans for water systems for air-conditioning and refrigeration system <p>6.2 Basic installation methods and procedures of water systems for air-conditioning and refrigeration system</p> <ul style="list-style-type: none"> ◆ Identify locations at work site for installing equipment according to the layout plan of the water systems for air-conditioning and refrigeration system ◆ Prepare ancillary materials for installation of water systems equipment for air-conditioning and refrigeration system ◆ Install water pumps, air handling units, expansion tanks, cooling towers, condensers, fan coil units, water pipes, valves and other water systems equipment and accessories according to instructions of superiors <p>6.3 Professionalism in basic installation of air-conditioning and refrigeration water systems</p> <ul style="list-style-type: none"> ◆ Follow the instructions of drawings and specifications to perform basic installation of water systems equipment for air-conditioning and refrigeration system ◆ Understand the safety guidelines as required by the law and the code of practice to perform basic installation of water systems for air-conditioning and refrigeration system
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to complete basic installation of water systems for air-conditioning and refrigeration system systematically and efficiently; and</p> <p>(ii) Capable to follow the code of practice to perform basic installation of water systems for air-conditioning and refrigeration system.</p>
8. Remarks	This unit of competency is applicable to practitioners engaged in general installation of air-conditioning and refrigeration water systems.