

1. Title	Install window type and split type air-conditioners
2. Code	EMACIN303A
3. Range	Perform installation of window type and split type air-conditioners at installation sites.
4. Level	3
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of installing window type and split type air-conditioners</p> <ul style="list-style-type: none"> <li>◆ Estimate the required indoor refrigeration output, including: <ul style="list-style-type: none"> <li>• Describing the definition of typical units of refrigeration output</li> <li>• Describing the factors affecting the indoor refrigeration output</li> <li>• Estimating the required indoor refrigeration output according to various factors</li> </ul> </li> <li>◆ Select suitable air-conditioners, including: <ul style="list-style-type: none"> <li>• Determining the specifications of air-conditioners according to the required indoor refrigeration output and environmental limitations</li> <li>• Explaining the information inscribed on the nameplate of an air-conditioner</li> </ul> </li> <li>◆ Understand the features of window type and split type air-conditioners, including: <ul style="list-style-type: none"> <li>• Selecting suitable indoor temperature</li> <li>• Describing the environmental conditions for use of air-conditioners</li> <li>• Operating a window type air-conditioner and its remote control</li> <li>• Operating a split type air-conditioner and its remote control</li> </ul> </li> </ul> <p>6.2 Methods and procedures of installing window type and split type air-conditioners</p> <ul style="list-style-type: none"> <li>◆ Install window type air-conditioners, including: <ul style="list-style-type: none"> <li>• Selecting the correct installation position for window type air-conditioners</li> <li>• Installing window type air-conditioners on aluminium windows and steel windows according to general installation requirements</li> <li>• Performing operation tests for the installed window type air-conditioner</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>◆ Install split type air-conditioners, including: <ul style="list-style-type: none"> <li>• Selecting the correct installation position for split type air-conditioners</li> <li>• Installing the indoor unit and outdoor unit of a split type air-conditioner according to general installation requirements</li> <li>• Making, installing and joining refrigerant (copper) pipings</li> <li>• Performing vacuum and pressure tests for the refrigeration system and adding the refrigerant</li> <li>• Performing (copper) pipings evacuation and leakage detection and releasing the refrigerant from the outdoor unit to the whole refrigeration system</li> <li>• Wiring up and installing the electrical circuits of the indoor and outdoor units</li> <li>• Performing running tests for the installed split type air-conditioner</li> </ul> </li> </ul> <p>6.3 Professionalism in installing window type and split type air-conditioners</p> <ul style="list-style-type: none"> <li>◆ Install window type and split type air-conditioners independently or instruct others to perform such tasks</li> <li>◆ Understand the safety guidelines as required by the law and codes of practice and undertake tasks of installing window type and split type air-conditioners</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to complete tasks of installing window type and split type air-conditioners systematically and efficiently; and</p> <p>(ii) Capable to undertake tasks of installing window type and split type air-conditioners safely according to codes of practice.</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge and skills of installing window type and split type air-conditioners.</p>