

1. Title	Install thermal insulation materials for air-conditioning and refrigeration systems
2. Code	EMACIN306A
3. Range	Perform the installation of various types of thermal insulation materials for air-conditioning and refrigeration systems 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 thermal insulation materials for air-conditioning and refrigeration systems</p> <ul style="list-style-type: none"> <li>◆ Understand the performance of typical thermal insulation materials</li> <li>◆ Understand the selection criteria for different thermal insulation materials</li> </ul> <p>6.2 Methods and procedures of installing thermal insulation materials for air-conditioning and refrigeration systems</p> <ul style="list-style-type: none"> <li>◆ Install heat preservation materials for cold water pipe systems of air-conditioning and refrigeration systems air-conditioning and refrigeration, including being able to: <ul style="list-style-type: none"> <li>• Install phenolic foam and fibre glass thermal insulation materials tight and neat on to all cold water pipes and equipment</li> <li>• Install elastomeric thermal insulation materials tight and neat on to all cold water pipes and equipment</li> <li>• Install elastomeric thermal insulation materials tight and neat on to all cold water pipes and equipment and reinforce with wire mesh and cement</li> <li>• Perform seal treatment to thermal insulation material connection points</li> <li>• Install damp proof layers on thermal insulation materials</li> </ul> </li> <li>◆ Install thermal insulation materials for air duct systems, including being able to: <ul style="list-style-type: none"> <li>• Install soft or hard fibre glass, phenolic foam and elastomeric thermal insulation materials tight and neat on to all cold air ducts and equipment</li> </ul> </li> </ul>

	<p>6.3 Professionalism in installing thermal insulation materials for air-conditioning and refrigeration systems</p> <ul style="list-style-type: none"> <li>• Install elastomeric thermal insulation materials tight and neat on to all cold air ducts and equipment and reinforce with wire mesh and cement</li> <li>• Perform seal treatment to thermal insulation material connection points</li> <li>• Install damp proof layers on thermal insulation materials</li> <li>◆ Understand the safety guidelines as required by the law and the code of practice to install various types of thermal insulation materials for air-conditioning and refrigeration systems</li> </ul>
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to complete the installation of various types of thermal insulation materials for air-conditioning and refrigeration systems systematically and efficiently.</p>
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person already possesses elementary knowledge and skills of thermal insulation for air-conditioning and refrigeration systems.</p>