

1. Title	Installation of pipes and fittings
2. Code	EMPDIN101A
3. Range	Install pipes and fittings under instruction for fire service and plumbing installation works.
4. Level	1
5. Credits	4
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Know about applications of different types of pipe materials</p> <ul style="list-style-type: none"> <li>◆ Know about the following types of pipe materials and their standards: <ul style="list-style-type: none"> <li>• Cast iron pipes</li> <li>• Ductile iron pipes</li> <li>• Copper pipes</li> <li>• uPVC pipes</li> <li>• PE pipes</li> <li>• PVC_C pipes</li> <li>• Cross-linked polyethylene (PEX) pipes</li> <li>• PB pipes</li> <li>• Lined (uPVC/ polyethylene lining) galvanized steel pipes</li> </ul> </li> <li>◆ Know about the pipe installation methods for different situations, such as: <ul style="list-style-type: none"> <li>• Welding</li> <li>• Compressing</li> <li>• Threading</li> <li>• Flanging</li> <li>• Solvent cement</li> </ul> </li> </ul> <p>6.2 Suggestions on pipe installation method</p> <ul style="list-style-type: none"> <li>◆ Suggest methods of installing and joining different types of pipes for clients' reference according to their requirements and different situations</li> </ul> <p>6.3 Professionalism in installing pipes</p> <ul style="list-style-type: none"> <li>◆ Suggest pipe installation methods according to application guidelines and code of operation</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to know about the properties and applications of different types of pipe materials; and</p> <p>(ii) Capable to suggest methods of joining and handling different types of pipes.</p>
8. Remarks	This unit of competency is applicable to plumbing practitioners in general.