

1. Title	Design complicated water supply systems
2. Code	EMPDDE501A
3. Range	Apply basic design concept to provide creative designs for plumbing.
4. Level	5
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of applying the construction, theories and regulations for all kinds of water supply systems</p> <ul style="list-style-type: none"> <li>◆ Apply basic design concept and analysis results, consider and make use of some creative ideas to improve the existing water supply system design</li> <li>◆ Consider and integrate a wide range of concepts for operation, testing, repair and remote control in design</li> <li>◆ Be familiar with specialized and environment friendly design technologies e.g. renewable energy and solar power system</li> </ul> <p>6.2 Use advanced and specialized skills to provide creative engineering designs</p> <ul style="list-style-type: none"> <li>◆ Analyze, reorganize and assess a wide range of data and information, make good judgement and use advanced and specialized skills to work out creative design solutions and drawings</li> </ul> <p>6.3 Provide specialized complicated design</p> <ul style="list-style-type: none"> <li>◆ Provide water supply system design blueprint according to client's design brief, special requirements, contract documents and building plans and design standards</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to Apply basic design concept to provide creative designs; and</p> <p>(ii) Capable to provide water supply system design blueprint according to client's design brief, contract documents and building plans, relevant standards and special requirements.</p>
8. Remarks	<p>This unit of competency is suitable for enhancing the competency of water supply system designers. The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of water supply system design, installation, testing and repair.</p>