

1. Title	Design swimming pool systems
2. Code	EMPDDE407A
3. Range	Master the technical requirements for general swimming pool design, including ancillary facilities such as the circulation system, sterilization system and filtration system. This unit of competency is applicable to practitioners engaged in swimming pool design, contracting work and repair and maintenance.
4. Level	4
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand the operating principles of swimming pools ♦ Understand the parts of swimming pools and their operating principles, e.g. water feed pump, solution feed pump, pipes and fittings, sand filter and pool bottom light</p> <p>6.2 Design swimming pool systems ♦ Provide design solutions and plans for a swimming pool, including the pool size, power of the water feed pump, circulation water flow, circulation system and valves, pipe dimensions, feed water pool and filtration system, size of the filtering tank, etc.</p> <p>6.3 Professionalism in designing swimming pools ♦ Design swimming pools and their ancillary systems according to safety guidelines and regulations on swimming pools</p>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Design swimming pools and their ancillary systems according to the environment and customers' requirements; and</p> <p>(ii) Capable to provide design solutions and plans and operating requirements for swimming pools.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of water supply and drainage.