1. Title	Design water supply systems
2. Code	EMPDDE403A
3. Range	As regards plumbing projects, master all kinds of plumbing system components and their operating principles; design water supply systems according to rules and regulations; and offer several design options for customer's consideration.
4. Level	4
5. Credits	3
6. Competency	Performance Requirements
	<ul> <li>Understand the construction and operating principles of various kinds of various kinds of water supply systems including:         <ul> <li>Fresh water system</li> <li>Flush water system</li> <li>Special water supply systems</li> <li>Special water supply systems</li> <li>Understand the construction and operating principles of various kinds of water supply systems including:             <ul></ul></li></ul></li></ul>
	<ul> <li>Design water supply systems (system coordination and accessory equipment)</li> <li>Be familiar with the impact of accessories and auxiliary devices on the system</li> <li>impact of changing accessories and auxiliary devices on the system</li> <li>influence of changing and adding accessories and auxiliary devices on the system</li> <li>Run the operating procedures according to the system default</li> <li>Adapt the changes in system load</li> <li>Work out diversified designs flexibly</li> <li>Master the limitation of system performance and consider the extendibility of the system</li> <li>Use the coordination system for the best result</li> <li>Professionalism in</li> <li>Work out a highly efficient system design complying with</li> </ul>
	designing water technical requirements according to legal requirements, supply systems professional code of practice and specified conditions
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are:
	(i) Capable to master all kinds of plumbing system components and their operating principles; and
	(ii) Capable to use system coordination to design highly efficient water supply systems.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses design knowledge of relevant water supply systems.