1. Title	Design drainage systems
2. Code	EMPDDE404A
3. Range	As regards plumbing projects, master all kinds of plumbing system components and their operating principles; design drainage systems according to rules and regulations; and offer several design options for client's consideration.
4. Level	4
5. Credits	3
6. Competency	Performance Requirements
	<ul> <li>Understand the construction and operating principles of various kinds of drainage systems including:         <ul> <li>Drainage system</li> <li>Storm-water drainage system</li> <li>Understand the construction and operating principles of various kinds of drainage systems including:</li></ul></li></ul>
	<ul> <li>Design drainage 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 technical requirements according to legal requirements, drainage 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 drainage 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 drainage systems.