

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	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand the construction of various kinds of water supply systems, the system components and their operating principles</p> <ul style="list-style-type: none"> ◆ Understand the construction and operating principles of various kinds of water supply systems including: <ul style="list-style-type: none"> • Fresh water system • Flush water system • Special water supply systems ◆ Understand all kinds of water supply system components and their operating principles <p>6.2 Design water supply systems</p> <ul style="list-style-type: none"> ◆ Design water supply systems (system coordination and accessory equipment) <ul style="list-style-type: none"> • Be familiar with the impact of accessories and auxiliary devices on the system <ul style="list-style-type: none"> ▸ impact of changing accessories and auxiliary devices on the system ▸ influence of changing and adding accessories and auxiliary devices on the system • Run the operating procedures according to the system default • Adapt the changes in system load • Work out diversified designs flexibly • Master the limitation of system performance and consider the extendibility of the system • Use the coordination system for the best result <p>6.3 Professionalism in designing water supply systems</p> <ul style="list-style-type: none"> ◆ Work out a highly efficient system design complying with technical requirements according to legal requirements, professional code of practice and specified conditions
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to master all kinds of plumbing system components and their operating principles; and</p> <p>(ii) Capable to use system coordination to design highly efficient water supply systems.</p>
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.