

1. Title	Test and commission drainage systems and installations	
2. Code	EMPDIT402A	
3. Range	Use the expertise to conduct testing and commissioning of drainage systems and installations according to drawings.	
4. Level	4	
5. Credits	6	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of testing and commissioning drainage systems and installations</p> <ul style="list-style-type: none"> ◆ Understand the operating principles and performance requirements of various types of drainage systems and installations, including: <ul style="list-style-type: none"> • Fully vented one pipe drainage system with ventilation pipe • Two-pipe drainage system with ventilation pipe [stink (manure) pipe and waste drain] • Single stack drainage system (without ventilation pipe) • Storm-water drainage system ◆ Understand requirements of codes on drainage installations and equipment, design and installation specifications, and approved standards on various types of drainage systems and installations for testing and commissioning ◆ Understand the content of testing and commissioning documents (checklist, testing report form, etc.) <p>6.2 Methods and procedures of testing and commissioning drainage systems and installations</p> <ul style="list-style-type: none"> ◆ Know the methods and procedures of testing and commissioning drainage systems and installations, including conducting inspection, calibration and testing ◆ Lead the testing and commissioning of drainage systems and installations, including: <ul style="list-style-type: none"> • Static check of system • Functional test of system • Calibration of components to ensure normal operation of system • Measurement of operation data ◆ Analyze abnormal testing results and troubleshoot the problems ◆ Use relevant tools and equipments safely and effectively to test and calibrate drainage systems and installations <p>6.3 Professionalism in testing and commissioning drainage systems and installations</p> <ul style="list-style-type: none"> ◆ Conduct testing and commissioning of drainage systems and installations according to legal requirements, codes of practice and standards of the trade ◆ Record, analyze and report on the testing and commissioning results of drainage systems and installations 	

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to use the expertise to complete the testing and commissioning of drainage systems and installations.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of installing and testing drainage systems and installations.