

1. Title	Install power supply and control equipment of water supply systems
2. Code	EMPDIN302A
3. Range	Perform different levels of tasks of installing power supply and control equipment of water supply systems at workshops or equipment installation points.
4. Level	3
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of installing power supply and control equipment of water supply systems</p> <ul style="list-style-type: none"> ◆ Understand the construction and operating principles of various types of power supply and control equipment of water supply systems such as: <ul style="list-style-type: none"> • Indirect water supply systems (including fresh water and flush water) • Pressurized water supply system • Variable speed water pump water supply system ◆ Read installation drawings of power supply and control equipment of water supply systems ◆ Understand the installation requirements and specifications of such equipment <p>6.2 Methods and procedures of installing power supply and control equipment of water supply systems</p> <ul style="list-style-type: none"> ◆ Know the installation procedures and methods for power supply and control equipment of water supply systems, including the procedures of material checking, assembly, adjustment and testing ◆ Select and use suitable components and materials for the power supply and control equipment of water supply systems ◆ Install and set distribution board, wire, conduit, switchgear, control panel, pump motor starter, relay and indicator light, etc. skilfully at suitable locations according to installation instructions ◆ Use general workshop equipment and tools safely and skilfully, e.g. threading tools (for conduit), electric drill, bench fitting tools and multi-meter ◆ Use testing tools to conduct functional tests after installation <p>6.3 Professionalism in installing power supply and control equipment of water supply systems</p> <ul style="list-style-type: none"> ◆ Perform different levels of tasks of installing power supply and control equipment of water supply systems according to installation instructions ◆ Understand the safety guidelines required by the law and the code of practice in undertaking installation work of power supply and control equipment of water supply systems

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to complete different levels of installation tasks systematically and efficiently for power supply and control equipment of water supply systems; and (ii) Capable to undertake installation work of power supply and control equipment of water supply systems according to the code of practice of the trade.
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses elementary knowledge and skill in installing power supply and control equipment of water supply systems.</p>