

1. Title	Perform basic tasks of designing fire service electrical equipment
2. Code	EMFSDE403A
3. Range	Perform regular tasks of designing fire service electrical equipment in familiar situations according to plans.
4. Level	4
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Basic knowledge of designing fire service electrical equipment</p> <ul style="list-style-type: none"> ◆ Understand the construction, working principles and characteristics of various types of fire service electrical equipment (such as power supply, control and alarm devices) ◆ Understand the basic requirements for designing fire service electrical equipment ◆ Understanding the contents of design standards and codes, including: <ul style="list-style-type: none"> • The Code of Practice for Fire Service Installations and Equipment • The supply rules • Recognized international standards (BSEN, NFPA) <p>6.2 Basic methods and procedures of designing fire service electrical equipment</p> <ul style="list-style-type: none"> ◆ Perform various types of basic tasks of designing fire service electrical equipment in familiar situations according to design outline, recognized standards and relevant local regulations ◆ Formulate schematic drawings and layout plans of various types of fire service electrical equipment ◆ Calculate and determine the size and position of components, such as: <ul style="list-style-type: none"> • Size of cable • Capacity of backup battery • Number of detectors and alarms ◆ Formulate the specifications of various types of fire service electrical equipment and select relevant equipment <p>6.3 Professionalism in basic design of fire service electrical equipment</p> <ul style="list-style-type: none"> ◆ Perform basic tasks of designing fire service electrical equipment according to instructions, legal requirements, codes of practice and standards

7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to complete the basic tasks of designing fire service electrical equipment effectively in familiar situations, according to outline, recognized standards and relevant local regulations, including formulating schematic drawings and layout plans, and specifications of various types of fire service electrical equipment and selecting relevant equipment.</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses general knowledge of fire service electrical equipment.</p>