

1. Title	Apply the knowledge of non-water-based fire systems and equipment
2. Code	EMFSDE306A
3. Range	Apply the knowledge of non-water-based fire systems and equipment to the design, installation, commissioning, operation, repair and maintenance of such systems at design offices or work sites.
4. Level	3
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of non-water-based fire systems and equipment</p> <ul style="list-style-type: none"> ◆ Understand the types, construction, functions, applications and working principles of typical non-water-based fire systems and equipment, including: <ul style="list-style-type: none"> • Carbon dioxide • FM200 • NAFSIII • Other similar extinguishing agents ◆ Understand the construction and uses of components, and the impact of different accessories on system operation ◆ Understand the operation sequence and performance requirements of typical non-water-based fire systems ◆ Read the drawings of non-water-based fire systems and components ◆ Know about relevant specifications and guidelines stated in the Code of Practice for Fire Service Installations and Equipment <p>6.2 Application of non-water-based fire systems and equipment</p> <ul style="list-style-type: none"> ◆ Communicate with clients effectively on issues relevant to the design, installation, commissioning, operation, repair and maintenance of non-water-based fire systems ◆ Apply the knowledge of non-water-based fire systems and equipment to the design, installation, commissioning, operation, repair and maintenance tasks, including: <ul style="list-style-type: none"> • Select proper non-water-based fire systems and equipment according to building types and uses • Ensure that the selected non-water-based fire systems and equipment meet the requirements and guidelines stated in the Code of Practice for Fire Service Installations and Equipment • Perform assessments and tests of the general installation, operation and maintenance work of non-water-based fire systems and equipment and make proposals for solving the problems

<p>7. Assessment Criteria</p>	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to communicate with clients effectively on issues relevant to the design, installation, commissioning, operation, repair and maintenance of non-water-based fire systems; and (ii) Capable to apply the knowledge of non-water-based fire systems and equipment in the selection of proper systems for the client and to solve the problems involved in the design, installation, commissioning, operation, repair and maintenance of such systems.
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of fire service installations.</p>