

1. Title	Apply the knowledge of specialized fire systems and equipment
2. Code	EMFSDE401A
3. Range	Apply the expertise, in different situations/conditions, to the design, installation, operation, repair, maintenance and project management of specialized fire systems at design offices or work sites.
4. Level	4
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of specialized fire systems and equipment</p> <ul style="list-style-type: none"> ◆ Understand the types, construction, functions, applications and working principles of specialized fire systems and equipment, including: <ul style="list-style-type: none"> • Fixed foam system • Dry chemical system • Water mist system • Improvised sprinkler system ◆ Understand the construction, uses and selection of components, and the impact of different accessories on system operation ◆ Understand the operation sequence and performance requirements of specialized fire systems ◆ Read the drawings of specialized fire systems and components ◆ Understand relevant specifications and guidelines stated in the Code of Practice for Fire Service Installations and Equipment <p>6.2 Application of the knowledge of specialized 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 specialized fire systems ◆ Apply the knowledge of specialized fire systems and equipment, in different situation/conditions, to design, installation, commissioning, operation, repair and maintenance tasks, including: <ul style="list-style-type: none"> • Select suitable specialized fire systems and equipment according to building types and uses • Ensure that the selected specialized 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 general installation, operation and maintenance of specialized fire systems and equipment and make proposals for solving the problems

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to communicate with clients effectively on issues relevant to the design, installation, commissioning, operation, repair and maintenance of specialized fire systems; and (ii) Capable to apply the knowledge of specialized fire systems and equipment, in different situations/conditions, 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.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of fire service installations.