

1. Title	Formulate the reports for non-conventional fire system design scheme
2. Code	EMFSDE702A
3. Range	Capable to apply performance-based design methods and highly specialized design techniques, in the absence of complete or consistent data/information, to formulate reports for complicated, *non-conventional fire system design scheme.
4. Level	7
5. Credit	12
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Details of *non-conventional fire system design report</p> <ul style="list-style-type: none"> ◆ Master the uses of large buildings, special architectural design codes, project schedules and the design criteria of *non-conventional fire systems ◆ Understand the formats and highlights of *non-conventional fire system design report ◆ Master the performance-based fire design methods and their major codes, including: <ul style="list-style-type: none"> • Local regulations • Recognized international standards

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| <p>6.2 Formulate reports for complicated, performance-based fire system design scheme</p> | <ul style="list-style-type: none">◆ Formulate the reports for complicated, performance-based fire system design and planning in the absence of complete or consistent data/information<ul style="list-style-type: none">• Assess the hazards caused by special architectural design and fire• Analyze different feasibility design proposals and their merits and demerits• Integrate all the information relevant to *non-conventional fire system design, including:<ul style="list-style-type: none">▸ Descriptions of proposed systems▸ Design criteria and specifications▸ System drawings▸ Project estimates▸ Project schedules▸ Fire modelling computations◆ Compile the reports for performance-based fire system design in an organized and systematic way, including:<ul style="list-style-type: none">• Feasibility reports• Outline design reports• Scheme design reports |
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7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to formulate reports systematically for complicated *non-conventional fire system design scheme in the absence of complete or consistent data/information.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of *non-conventional fire service design. *Non-conventional fire service design replaces the prescriptive provisions of the Code of Practice for Fire Service Installations and Equipment with fire engineering design methods that require highly specialized techniques and a set of designs acceptable to the Fire Services Department.