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| 1. Title      | Test and commission fire detection and alarm systems and installations  |
| 2. Code       | EMFSIT403A  |
| 3. Range      | Lead the testing and commissioning of fire detection and alarm systems and installations at their installation points.  |
| 4. Level      | 4   |
| 5. Credit     | 6   |
| 6. Competency | <p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of fire detection and alarm system and installation testing and commissioning</p> <ul style="list-style-type: none"> <li>◆ Understand the operating principles and performance requirements of various types of fire detection and alarm systems and installations, including: <ul style="list-style-type: none"> <li>• Conventional (electronic) type</li> <li>• Addressable (intelligent) type</li> </ul> </li> <li>◆ Understand requirements of codes on fire service installations and equipment, design and installation specifications, and approved standards on various types of fire detection and alarm systems and installations for testing and commissioning</li> <li>◆ Understand the content of testing and commissioning documents (checklist, testing report form, etc.)</li> </ul> <p>6.2 Methods and procedures of fire detection and alarm system and installation testing and commissioning</p> <ul style="list-style-type: none"> <li>◆ Know the methods and procedures of testing and commissioning fire detection and alarm systems and installations, including conducting inspection, calibration and testing independently</li> <li>◆ Lead the testing and commissioning of fire detection and alarm systems and installations, including: <ul style="list-style-type: none"> <li>• Static check of system</li> <li>• Functional test of system</li> <li>• Calibration of components to ensure normal operation of system</li> <li>• Measurement of operation data</li> </ul> </li> <li>◆ Analyze abnormal testing results and troubleshoot the problems</li> <li>◆ Use relevant tools and equipments safely and effectively to test and calibrate fire detection and alarm systems and installations</li> </ul> <p>6.3 Professionalism in testing and commissioning fire detection and alarm systems and installations</p> <ul style="list-style-type: none"> <li>◆ Conduct testing and commissioning of fire detection and alarm systems and installations according to legal requirements, codes of practice and standards of the trade</li> <li>◆ Record, analyze and report on the testing and commissioning results of fire detection and alarm systems and installations</li> </ul> |

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| 7. Assessment<br>Criteria | The integrated outcome requirement of this unit of competency is:<br><br>(i) Capable to use the expertise to complete the testing and commissioning of fire detection and alarm systems and installations. |
| 8. Remarks                | The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of installing and testing general fire detection and alarm systems and installations.    |