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| 1. Title | Maintain and repair non-water-based fire service mechanical installations |
| 2. Code | EMFSOR302A |
| 3. Range | Carry out maintenance and repair of non-water-based fire service mechanical installations independently at repair workshops or work sites according to repair instructions and standards. |
| 4. Level | 3 |
| 5. Credit | 6 |
| 6. Competency | <p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Construction and operating principles of non-water-based fire service mechanical installations</p> <ul style="list-style-type: none"> ◆ Understand the functions and operating principles of various types of non-water-based fire service mechanical installations, including: <ul style="list-style-type: none"> • Carbon dioxide system • FM200 system • NAFSIII system • Other similar extinguishing agent systems <p>6.2 Repair and maintenance methods and procedures of non-water-based fire service mechanical installations</p> <ul style="list-style-type: none"> ◆ Master the procedures and methods of maintenance and repair of various types of fixed non-water-based fire service systems and mechanical installations, including the procedures of inspection, repair and testing ◆ Examine the damage condition of accessories independently, such as pipes, gas cylinders, switches, exhaust valves, nozzles, detectors and control panels, according to repair instructions ◆ Diagnose the problems and repair or replace damaged accessories ◆ Select, use and maintain general workshop equipment and tools for class 2 fire service mechanical installation contractors ◆ Use appropriate testing equipment to conduct functional tests independently after repair ◆ Instruct subordinates to carry out maintenance and repair work properly <p>6.3 Professionalism in maintenance and repair of non-water-based fire service mechanical installations</p> <ul style="list-style-type: none"> ◆ Carry out maintenance and repair of non-water-based fire service mechanical installations independently according to repair instructions and specifications ◆ Undertake maintenance and repair work of non-water-based fire service mechanical installations according to safety guidelines required by the law and codes of practice |

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| <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 carry out maintenance and repair of non-water-based fire service mechanical installations independently; and (ii) Capable to undertake maintenance and repair work of non-water-based fire service mechanical installations according to codes of practice and legal requirements on safety. |
| <p>8. Remarks</p> | <p>The credit value of this unit of competency is set on the presumption that the person already possesses elementary knowledge and skill in repairing and maintaining non-water-based fire service mechanical installations.</p> |