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| 1. Title | Repair and maintain installations of low voltage distribution network system |
| 2. Code | EMELOR411A |
| 3. Range | Perform repair and maintenance for low voltage power supply network system and associated installations directly powered by several transformers according to the code of safe working practice. |
| 4. Level | 4 |
| 5. Credit | 6 |
| 6. Competency | <p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Master repair and maintenance technologies for various types of low voltage power supply network system and associated installations</p> <ul style="list-style-type: none"> ◆ Master the operating principles of low voltage power supply network system and associated installations directly fed by several transformers, including various kinds of low voltage power distribution switches, backup generators, rising mains, cables, protection and control devices, etc. ◆ Master the performance and operating methods for various types of testing instruments ◆ Master recognized technical requirements on repairing and maintaining various types of low voltage power supply network installations, including protective maintenance, routine replacement of parts and emergency fault repair ◆ Master repair and maintenance technologies for low voltage power supply network system circuit protection relay including replacing advanced microprocessor-based relay, self-monitoring technology, etc. ◆ Master repair and maintenance technologies for various types of low voltage power supply network system according to the code of safe working practice <p>6.2 Perform repair and maintenance for low voltage power supply network system and associated installations</p> <ul style="list-style-type: none"> ◆ Formulate guidelines on repair and maintenance of low voltage power supply network installations according to code of safe working practice ◆ Strictly follow the Safety Rules and working guidelines to repair and maintain low voltage power supply network installations <p>6.3 Professionalism in repairing and maintaining low voltage distribution network systems and associated installations</p> <ul style="list-style-type: none"> ◆ Follow the Electricity (Wiring) Regulations and code of safe working practice to perform repair and maintenance for low voltage distribution network systems |

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| 7. Assessment Criteria | The integrated outcome requirements of this unit of competency are: (i) Capable to formulate low voltage distribution equipment repair and maintenance guidelines according to the code of safe working practice; and (ii) Capable to follow the code of safe working practice to perform repair and maintenance for low voltage distribution equipment. |
| 8. Remarks | |