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| 1. Title      | Perform electrical wiring of escalator   |
| 2. Code       | EMLEIN318A   |
| 3. Range      | Arrange and implement the installation of electrical wiring of escalator at construction sites.  |
| 4. Level      | 3  |
| 5. Credit     | 3  |
| 6. Competency | <p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Principles of electrical wiring of escalator</p> <ul style="list-style-type: none"> <li>◆ Understand electrical wiring drawings including: <ul style="list-style-type: none"> <li>• working drawings of the electrical installations in escalator upper machine room</li> <li>• working drawings of the electrical installations in escalator lower machine room</li> <li>• working drawings of the electrical installations in escalator truss</li> </ul> </li> <li>◆ Understand and use the drawings to formulate the whole set of electrical installation work</li> <li>◆ Understand the basic requirements and relevant standards for electrical wiring including: <ul style="list-style-type: none"> <li>• types and identification of wires</li> <li>• wire terminal connection method</li> <li>• wire insulation and continuity test</li> </ul> </li> </ul> <p>6.2 Methods and procedures for electrical wiring of escalator</p> <ul style="list-style-type: none"> <li>◆ Formulate and implement the whole set of electrical wiring procedures including: <ul style="list-style-type: none"> <li>• electrical installations in escalator upper machine room</li> <li>• electrical installations in escalator lower machine room</li> <li>• electrical installations in escalator truss</li> </ul> </li> <li>◆ Know the electrical wiring techniques including: <ul style="list-style-type: none"> <li>• identification of wires</li> <li>• symbols and markings on wires</li> <li>• wire laying technique</li> <li>• wire terminal connection</li> </ul> </li> <li>◆ Implement wire insulation and continuity test</li> <li>◆ Effectively use electrical installation tools and general testing instruments</li> </ul> |

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|                        | <p>6.3 Professionalism in electrical wiring of escalator</p> <ul style="list-style-type: none"> <li>◆ Follow working drawing's instructions to carry out electrical wiring</li> <li>◆ Understand escalator safety guidelines, code of practice and Code of Practice for the Electricity (Wiring) Regulations in order to perform electrical wiring</li> </ul> |
| 7. Assessment Criteria | <p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>(i) Capable to formulate the whole set of electrical wiring procedures according to drawings; and</li> <li>(ii) Capable to systematically and effectively arrange and implement the installation of electrical wiring.</li> </ul>           |
| 8. Remarks             | <p>The credit value of this unit of competency is set on the presumption that the person already possesses knowledge in installing electrical conduits and trunkings of escalators.</p>   |