

1. Title	Maintain lift control cabinets
2. Code	EMLEOR302A
3. Range	Arrange and implement the maintenance of lift control cabinets at field locations.
4. Level	3
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Structure and working principles of lift control cabinets</p> <ul style="list-style-type: none"> <li>◆ Understand the structure and working principles of different kinds of control cabinet including: <ul style="list-style-type: none"> <li>• single-speed AC drive (AC 1) control cabinet</li> <li>• two-speed AC drive (AC 2) control cabinet</li> <li>• variable voltage AC drive (ACVV) control cabinet</li> <li>• variable voltage variable frequency AC drive (ACVVVF) control cabinet</li> <li>• MG set variable voltage DC drive (Ward-Leonard D.C Drive) control cabinet</li> <li>• Thyristor variable voltage DC drive (Thyristor-Leonard D.C. Drive) control cabinet</li> </ul> </li> <li>◆ Understand the structure and working principles of different control cabinets components including transformers, rectifiers, protective devices, resistors, reactors, capacitors, converters, inverters, electronic circuit boards, contactors and relays</li> </ul> <p>6.2 Methods and procedures of maintaining lift control cabinets</p> <ul style="list-style-type: none"> <li>◆ Know the repair and maintenance of different control cabinets and the works include the procedures of inspection, cleaning, oiling and testing</li> <li>◆ Know the repair and maintenance of different control cabinets components and the works include conditions, functions, fault records and set values of the components</li> <li>◆ Know the arrangement and implementation of maintenance instructions for lift control cabinets</li> <li>◆ Enable to effectively operate the maintenance instruments and tools</li> </ul> <p>6.3 Professionalism in handling lift control cabinets</p> <ul style="list-style-type: none"> <li>◆ Follow manufacturer's maintenance instructions to arrange and implement the maintenance of control cabinets</li> <li>◆ Understand the requirements of safety guidelines and the code of practice for lifts in order to perform the maintenance of control cabinets</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 master the construction and key points of repair and maintenance of different kinds of control cabinet;</li> <li>(ii) Capable to systematically and effectively complete the repair and maintenance of different kinds of control cabinet;</li> <li>(iii) Capable to arrange and implement the maintenance instructions for lift control cabinets; and</li> <li>(iv) Capable to follow manufacturer's maintenance instructions to arrange and implement the maintenance of control cabinets.</li> </ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of maintaining general lift control cabinets.</p>