

1. Title	Maintain escalator driving devices
2. Code	EMLEOR325A
3. Range	Arrange and implement the maintenance of escalator driving devices 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 escalator driving machines</p> <ul style="list-style-type: none"> <li>◆ Understand the structure and working principles of different drive motors including: <ul style="list-style-type: none"> <li>• 3-phase AC induction motor</li> <li>• 3-phase AC permanent-magnet motor</li> </ul> </li> <li>◆ Understand the structure and working principles of different driving machines including: <ul style="list-style-type: none"> <li>• helical gear driving machine</li> <li>• vertical worm reduction gear driving machine</li> </ul> </li> <li>◆ Understand the structure and working principles of different electromechanical brakes including: <ul style="list-style-type: none"> <li>• magnetic drum brake</li> <li>• magnetic disc brake</li> <li>• auxiliary brake</li> </ul> </li> </ul> <p>6.2 Methods and procedures of maintaining driving devices</p> <ul style="list-style-type: none"> <li>◆ Know the repair and maintenance of driving devices including the procedures of inspection, cleaning, oiling and testing</li> <li>◆ Know the repair and maintenance of different driving machines including: <ul style="list-style-type: none"> <li>• motor</li> <li>• gearbox</li> <li>• brake</li> <li>• transmission system</li> </ul> </li> <li>◆ Arrange and implement maintenance instructions for escalator driving devices</li> <li>◆ Effectively use repairing and testing instruments and tools</li> </ul> <p>6.3 Professionalism in maintaining escalator driving devices</p> <ul style="list-style-type: none"> <li>◆ Follow manufacturer's maintenance instructions to maintain the driving devices</li> <li>◆ Understand the requirements of safety guidelines and the code of practice for escalator in order to maintain the driving devices</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 the escalator driving devices;</li> <li>(ii) Capable to systematically and effectively complete the repair and maintenance of the escalator driving devices;</li> <li>(iii) Capable to arrange and implement the maintenance instructions for the escalator driving devices; and</li> <li>(iv) Capable to follow manufacturer's maintenance instructions to arrange and implement the maintenance of the escalator driving devices.</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 driving devices of general escalators.</p>