

1. Title	Overhaul driving devices of general escalators	
2. Code	EMLEOR227A	
3. Range	Overhaul escalator driving devices (worm reduction gear box and vertical height 3m or below) under general situations at field locations.	
4. Level	2	
5. Credit	3	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <div> <div> 6.1 Structure and working principles of escalator driving machines (worm reduction gear box) </div> <div> <ul style="list-style-type: none"> <li>◆ Understand the structure and working principles of general drive motors including: <ul style="list-style-type: none"> <li>• 3-phase AC induction motor</li> </ul> </li> <li>◆ Understand the structure and working principles of general driving machines including: <ul style="list-style-type: none"> <li>• vertical worm reduction gear driving machine</li> </ul> </li> <li>◆ Understand the structure and working principles of general electro-mechanical brakes including: <ul style="list-style-type: none"> <li>• brake drum of electromagnetic brakes</li> <li>• auxiliary brakes</li> </ul> </li> </ul> </div> </div> <div> <div> 6.2 Overhaul methods and procedures for driving machines (worm reduction gear box) </div> <div> <ul style="list-style-type: none"> <li>◆ Know how to perform the safety measures at general work sites including: <ul style="list-style-type: none"> <li>• the safety work of shutdown procedures</li> <li>• safety measurement for working</li> <li>• the safety work of resumption operation</li> </ul> </li> <li>◆ Know lifting methods and procedures for general driving machines including: <ul style="list-style-type: none"> <li>• vertical worm reduction gear driving machines</li> </ul> </li> <li>◆ Effectively use general lifting gear to lift driving machines</li> <li>◆ Use general tools effectively to disassemble and assemble driving machines</li> </ul> </div> </div> <div> <div> 6.3 Professionalism in disassembling and assembling driving machines (worm screw) </div> <div> <ul style="list-style-type: none"> <li>◆ Follow manufacturer's repair instructions and the code of practice for escalator work safety to disassemble and assemble driving machines</li> <li>◆ Understand manufacturer's repair instructions and the code of practice for escalator design and construction to adjust and test driving machines including: <ul style="list-style-type: none"> <li>• 3-phase AC vertical worm reduction gear driving machines</li> </ul> </li> </ul> </div> </div>	



7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to systematically and efficiently disassemble, assemble and adjust escalator driving devices (worm reduction gear box and vertical height 3m or below) in compliance with the prescribed standards of repair.</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses knowledge and skills in maintaining general escalator driving devices.</p>