

1. Title	Maintain the hydraulic power units of general hydraulic lifts
2. Code	EMLEOR210A
3. Range	Carry out the maintenance works of hydraulic power units (AC star-delta controlled motor) of hydraulic lifts under general situations at field locations.
4. Level	2
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Structure and working principles of the hydraulic power units of hydraulic lifts</p> <ul style="list-style-type: none"> <li>◆ Understand the structure and working principles of general 3-phase AC motors including: <ul style="list-style-type: none"> <li>• AC star-delta controlled motor</li> </ul> </li> <li>◆ Understand the structure and working principles of general hydraulic oil pumps including: <ul style="list-style-type: none"> <li>• screw-type hydraulic oil pumps</li> </ul> </li> <li>◆ Understand the structure and working principles of general oil valve controllers including: <ul style="list-style-type: none"> <li>• single speed oil valve controllers</li> </ul> </li> </ul> <p>6.2 Maintenance methods and procedures for hydraulic lift power units</p> <ul style="list-style-type: none"> <li>◆ Know the repair and maintenance procedures for general hydraulic power units including: <ul style="list-style-type: none"> <li>• inspection, cleaning and oiling</li> </ul> </li> <li>◆ Know the repair and maintenance of general hydraulic power units including: <ul style="list-style-type: none"> <li>• AC star-delta controlled motor such as bearing, belt pulley and coupling</li> <li>• screw-type hydraulic oil pumps such as bearing, belt pulley, coupling, oil seal and packing seal</li> <li>• single speed oil valve controllers such as manual hydraulic pump, hydraulic pressure gauge, oil seal and packing seal</li> <li>• hydraulic oil cooling devices such as oil cooling pump, cooling oil tank and cooling fan</li> </ul> </li> <li>◆ Use general repairing and testing instruments and tools effectively</li> </ul> <p>6.3 Professionalism in handling the hydraulic power units of hydraulic lifts</p> <ul style="list-style-type: none"> <li>◆ Follow manufacturer's maintenance instructions to maintain the hydraulic power units</li> <li>◆ Understand the requirements of safety guidelines and the code of practice for lifts in order to maintain hydraulic power units</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 systematically and effectively complete the maintenance of the hydraulic power units of general hydraulic lifts; and</li> <li>(ii) Capable to clearly explain the construction and the key points of maintenance of hydraulic power units.</li> </ul>
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 using general repairing and testing instruments and tools.</p>