

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"> ◆ Understand the structure and working principles of general 3-phase AC motors including: <ul style="list-style-type: none"> • AC star-delta controlled motor ◆ Understand the structure and working principles of general hydraulic oil pumps including: <ul style="list-style-type: none"> • screw-type hydraulic oil pumps ◆ Understand the structure and working principles of general oil valve controllers including: <ul style="list-style-type: none"> • single speed oil valve controllers <p>6.2 Maintenance methods and procedures for hydraulic lift power units</p> <ul style="list-style-type: none"> ◆ Know the repair and maintenance procedures for general hydraulic power units including: <ul style="list-style-type: none"> • inspection, cleaning and oiling ◆ Know the repair and maintenance of general hydraulic power units including: <ul style="list-style-type: none"> • AC star-delta controlled motor such as bearing, belt pulley and coupling • screw-type hydraulic oil pumps such as bearing, belt pulley, coupling, oil seal and packing seal • single speed oil valve controllers such as manual hydraulic pump, hydraulic pressure gauge, oil seal and packing seal • hydraulic oil cooling devices such as oil cooling pump, cooling oil tank and cooling fan ◆ Use general repairing and testing instruments and tools effectively <p>6.3 Professionalism in handling the hydraulic power units of hydraulic lifts</p> <ul style="list-style-type: none"> ◆ Follow manufacturer's maintenance instructions to maintain the hydraulic power units ◆ Understand the requirements of safety guidelines and the code of practice for lifts in order to maintain hydraulic power units

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to systematically and effectively complete the maintenance of the hydraulic power units of general hydraulic lifts; and (ii) Capable to clearly explain the construction and the key points of maintenance of hydraulic power units.
8. Remarks	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.