

1. Title	Maintain lift traction machines
2. Code	EMLEOR301A
3. Range	Arrange and implement the maintenance of lift traction machines 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 traction machines</p> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of different kinds of traction motor including: <ul style="list-style-type: none"> • 3-phase AC induction motor • 3-phase AC slip-ring induction motor • 3-phase AC permanent-magnet motor • shunt field DC motor • separative exciter DC motor ◆ Understand the structure and working principles of different traction machines including: <ul style="list-style-type: none"> • worm reduction gear traction machines • helical gear traction machines • gearless traction machines <p>6.2 Methods and procedures of maintaining lift traction machines</p> <ul style="list-style-type: none"> ◆ Know the repair and maintenance of different kinds of traction machines and the works include inspection, cleaning, oiling and testing ◆ Know the repair and maintenance of different kinds of motor and the works include: <ul style="list-style-type: none"> • motor commutator • carbon brush of commutator • motor bearing ◆ Know the repair and maintenance of different kinds of gearboxes and the works include: <ul style="list-style-type: none"> • gearbox bearing • gearbox worm shaft • gearbox worm gear • traction sheave ◆ Know the arrangement and implementation of instructions for lift traction maintenances ◆ Enable to effectively operate the maintenance instruments and tools

	<p>6.3 Professionalism in handling lift traction machines</p> <ul style="list-style-type: none"> ◆ Follow manufacturer's maintenance instructions to arrange and implement the maintenance of traction machines ◆ Understand the requirements of safety guidelines and the code of practice for lifts in order to perform the maintenance of traction machines
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to master the construction and key points of repair and maintenance of all kinds of traction machines; (ii) Capable to systematically and effectively complete the repair and maintenance of different kinds of lift traction machine; (iii) Capable to arrange and implement the maintenance instructions for lift traction machines;and (iv) Capable to follow manufacturer's maintenance instructions to arrange and implement the maintenance of traction machines.
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 traction machines.</p>