

1. Title	Maintain traction machines of general lift						
2. Code	EMLEOR201A						
3. Range	Maintain lift traction machines (worm reduction gear and carrying capacity 680kg 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> <table border="0"> <tr> <td style="vertical-align: top;">6.1 Structure and working principles of lift traction machines (worm reduction gear)</td><td> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of general traction motor including: <ul style="list-style-type: none"> • DC motor • AC motor ◆ Understand the structure and working principles of general traction machines including: <ul style="list-style-type: none"> • worm shaft upper type • worm shaft lower type </td></tr> <tr> <td style="vertical-align: top;">6.2 Maintenance methods and procedures of lift traction machine</td><td> <ul style="list-style-type: none"> ◆ Know the repair and maintenance of general traction machines and include the procedures of inspection, cleaning and oiling ◆ Know general motor repair and maintenance including: <ul style="list-style-type: none"> • commutator • carbon brush of commutator • motor bearing ◆ Know general gearbox repair and maintenance including: <ul style="list-style-type: none"> • gearbox bearing • gearbox worm shaft • gearbox worm gear • traction sheave ◆ Use general repairing and testing instruments and tools effectively </td></tr> <tr> <td style="vertical-align: top;">6.3 Professionalism in handling lift traction machines</td><td> <ul style="list-style-type: none"> ◆ Follow manufacturer's maintenance instructions to maintain traction machines ◆ Understand the requirements of safety guidelines and the code of practice for lifts in order to maintain traction machines </td></tr> </table>	6.1 Structure and working principles of lift traction machines (worm reduction gear)	<ul style="list-style-type: none"> ◆ Understand the structure and working principles of general traction motor including: <ul style="list-style-type: none"> • DC motor • AC motor ◆ Understand the structure and working principles of general traction machines including: <ul style="list-style-type: none"> • worm shaft upper type • worm shaft lower type 	6.2 Maintenance methods and procedures of lift traction machine	<ul style="list-style-type: none"> ◆ Know the repair and maintenance of general traction machines and include the procedures of inspection, cleaning and oiling ◆ Know general motor repair and maintenance including: <ul style="list-style-type: none"> • commutator • carbon brush of commutator • motor bearing ◆ Know general gearbox repair and maintenance including: <ul style="list-style-type: none"> • gearbox bearing • gearbox worm shaft • gearbox worm gear • traction sheave ◆ Use general repairing and testing instruments and tools effectively 	6.3 Professionalism in handling lift traction machines	<ul style="list-style-type: none"> ◆ Follow manufacturer's maintenance instructions to maintain traction machines ◆ Understand the requirements of safety guidelines and the code of practice for lifts in order to maintain traction machines
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to systematically and effectively complete the maintenance of general lift traction machines; and</p> <p>(ii) Capable to clearly explain the construction and key points of maintenance of traction machines.</p>						
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of using general repairing and testing instruments and tools.						