

1. Title	Maintain braking system of general lift						
2. Code	EMLEOR204A						
3. Range	Carry out the maintenance works of lift braking system (worm reduction gear of traction machine) 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 braking system with the traction machine of worm reduction gear</td><td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of general brakes (electro-mechanical) including: <ul style="list-style-type: none"> • brake drum type (upper worm shaft of worm reduction gear traction machine) • brake drum type (lower worm shaft of worm reduction gear traction machine) </td></tr> <tr> <td style="vertical-align: top;">6.2 Maintenance methods and procedures of braking system</td><td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Know the repair and maintenance of brakes including the procedures of inspection, cleaning and oiling ◆ Know the repair and maintenance of brakes including: <ul style="list-style-type: none"> • brake drum • brake lining • mechanical brake components • electromagnetic coil ◆ Use general repairing and testing instruments and tools effectively </td></tr> <tr> <td style="vertical-align: top;">6.3 Professionalism in maintaining brakes</td><td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Follow manufacturer's maintenance instructions to carry out the maintenance of brakes ◆ Understand the requirements of safety guidelines and the code of practice for lifts in order to perform maintenance of brakes </td></tr> </table>	6.1 Structure and working principles of lift braking system with the traction machine of worm reduction gear	<ul style="list-style-type: none"> ◆ Understand the structure and working principles of general brakes (electro-mechanical) including: <ul style="list-style-type: none"> • brake drum type (upper worm shaft of worm reduction gear traction machine) • brake drum type (lower worm shaft of worm reduction gear traction machine) 	6.2 Maintenance methods and procedures of braking system	<ul style="list-style-type: none"> ◆ Know the repair and maintenance of brakes including the procedures of inspection, cleaning and oiling ◆ Know the repair and maintenance of brakes including: <ul style="list-style-type: none"> • brake drum • brake lining • mechanical brake components • electromagnetic coil ◆ Use general repairing and testing instruments and tools effectively 	6.3 Professionalism in maintaining brakes	<ul style="list-style-type: none"> ◆ Follow manufacturer's maintenance instructions to carry out the maintenance of brakes ◆ Understand the requirements of safety guidelines and the code of practice for lifts in order to perform maintenance of brakes
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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 brake maintenance; and</p> <p>(ii) Capable to clearly explain the construction and key points of maintenance of brakes.</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.						