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| 1. Title      | Maintain suspension ropes and compensating ropes of general lift  |
| 2. Code       | EMLEOR208A  |
| 3. Range      | Carry out the maintenance works of suspension ropes (single wrap with roping ration 1:1) and compensation ropes 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 Types, structure and tensile strength of lift suspension ropes</p> <ul style="list-style-type: none"> <li>◆ Understand the types of general ropes including: <ul style="list-style-type: none"> <li>• ordinary lay suspension ropes</li> <li>• ordinary lay compensating ropes</li> </ul> </li> <li>◆ Understand the structure of general ropes including: <ul style="list-style-type: none"> <li>• fiber core</li> <li>• strands</li> <li>• wires</li> </ul> </li> <li>◆ Understand the tensile strength of general ropes including: <ul style="list-style-type: none"> <li>• single tensile</li> <li>• dual tensile</li> </ul> </li> </ul> <p>6.2 Maintenance methods and procedures of suspension ropes and compensation ropes</p> <ul style="list-style-type: none"> <li>◆ Know the repair and maintenance of suspension ropes and compensation ropes and the works include with the procedures of inspection, cleaning and oiling</li> <li>◆ Know the repair and maintenance of suspension ropes and compensation ropes including : <ul style="list-style-type: none"> <li>• tension adjustment</li> <li>• rope termination devices</li> <li>• rope diameter measurement</li> <li>• rope wear measurement</li> </ul> </li> <li>◆ Use general repairing and testing instruments and tools effectively</li> </ul> <p>6.3 Professionalism in maintaining suspension ropes and compensating ropes</p> <ul style="list-style-type: none"> <li>◆ Follow manufacturer's maintenance instructions to maintain suspension ropes and compensation ropes</li> <li>◆ Understand the requirements of safety guidelines and the code of practice for lifts in order to maintain suspension ropes and compensating ropes</li> </ul> |

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| 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 complete the maintenance of suspension ropes and compensation ropes systematically and effectively; and</li> <li>(ii) Capable to clearly explain the types of suspension ropes and compensation ropes and key points of their maintenance.</li> </ul> |
| 8. Remarks             | <p>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.</p>   |