

1. Title	Overhaul lift suspension ropes and compensation ropes
2. Code	EMLEOR319A
3. Range	Arrange and implement overhauls of lift suspension ropes and compensation rope at field locations.
4. Level	3
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 and compensation ropes and calculation of car and counterweight headroom</p> <ul style="list-style-type: none"> <li>◆ Understand different suspension ropes and compensation ropes including: <ul style="list-style-type: none"> <li>• ordinary lay suspension ropes</li> <li>• ordinary lay compensation ropes</li> <li>• regular lay suspension ropes</li> <li>• regular lay compensation ropes</li> </ul> </li> <li>◆ Understand the different structures of suspension ropes and compensation ropes including: <ul style="list-style-type: none"> <li>• fiber core</li> <li>• steel strand</li> <li>• steel wire</li> </ul> </li> <li>◆ Understand the tensile strength of suspension ropes and compensation ropes including: <ul style="list-style-type: none"> <li>• single tensile</li> <li>• dual tensile</li> </ul> </li> <li>◆ Understand the headroom calculation for different cars and counterweight including: <ul style="list-style-type: none"> <li>• reduction of overhead runby by positively monitoring slowdown devices</li> <li>• reduction of overhead runby by using anti-rebound devices</li> </ul> </li> </ul> <p>6.2 Overhaul methods and procedures for suspension ropes and compensation ropes</p> <ul style="list-style-type: none"> <li>◆ Formulate overhaul procedure lists for different suspension ropes and compensation ropes including: <ul style="list-style-type: none"> <li>• selecting appropriated tools set of lifting gears</li> <li>• formulating work procedure lists for lift cars</li> <li>• formulating work procedure lists for suspension ropes and compensation ropes</li> </ul> </li> </ul>

	<p data-bbox="336 1066 687 1223">6.3 Professionalism in full disassembly and assembly of suspension ropes and compensation ropes</p> <ul style="list-style-type: none"> <li data-bbox="743 253 1453 568">◆ Effectively use different lifting gears to implement and assign completed lifting work for f lift cars including: <ul style="list-style-type: none"> <li data-bbox="786 344 1235 371">• safety preparation works of shutdown</li> <li data-bbox="786 394 1445 421">• safety lifting the cars of single wrap and roping 1:1 &amp; 2:1</li> <li data-bbox="786 443 1453 470">• safety lifting the cars of double wrap and roping 1:1 &amp; 2:1</li> <li data-bbox="786 492 1289 519">• safety works for prevetion creeping of cars</li> <li data-bbox="786 542 1240 568">• safety works for resumption operation</li> </ul> </li> <li data-bbox="743 591 1410 1032">◆ Effectively use different tools to implement and assign completed disassembly and assembly work for suspension ropes and compensation ropes including: <ul style="list-style-type: none"> <li data-bbox="786 725 1222 752">• termination sockets for the old ropes</li> <li data-bbox="786 775 1302 801">• safety devices for prevention ropes slacking</li> <li data-bbox="786 824 1161 851">• equalization of tension devices</li> <li data-bbox="786 873 1394 943">• safety guards of prevention foreign falling object for suspension ropes</li> <li data-bbox="786 965 1394 1032">• safety guards of prevention foreign falling object for compensation ropes</li> </ul> </li> <li data-bbox="743 1066 1465 1223">◆ Apply manufacturer’s repair instructions and the code of practice for lift work safety to implement and assign completed disassembly and assembly work for suspension ropes and compensation ropes</li> <li data-bbox="743 1245 1401 1727">◆ Apply manufacturer’s repair instructions and the code of practice for lift design and construction to implement and assign completed testing work for suspension ropes and compensation ropes including: <ul style="list-style-type: none"> <li data-bbox="786 1420 1134 1447">• termination sockets of ropes</li> <li data-bbox="786 1469 1302 1496">• safety devices for prevention ropes slacking</li> <li data-bbox="786 1518 1161 1545">• equalization of tension devices</li> <li data-bbox="786 1568 1394 1637">• safety guards of prevention foreign falling object for suspension ropes</li> <li data-bbox="786 1659 1394 1727">• safety guards of prevention foreign falling object for compensation ropes</li> </ul> </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 arrange and assign completed disassembly, assembly and testing procedures for different kinds of lift suspension rope and compensation ropes systematically and through effective communication; and</li> <li>(ii) Capable to implement completed disassembly, assembly and testing works for different kinds of lift suspension rope and compensation ropes under general or complicated situations in compliance with the prescribed standards of repair.</li> </ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses knowledge and skills in overhauling general lift suspension ropes.</p>