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| 1. Title | Overhaul suspension ropes of general lift |
| 2. Code | EMLEOR219A |
| 3. Range | Overhaul lift suspension ropes (single wrap with roping ratio 1:1 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> <p>6.1 Types, structure and tensile strength of lift suspension ropes and calculation of car and counterweight overhead runby</p> <ul style="list-style-type: none"> ◆ Understand the types of general suspension ropes of ordinary lay ◆ Understand the structure of general suspension ropes including: <ul style="list-style-type: none"> • fiber core • strands • wires ◆ Understand the tensile strength of general suspension ropes including: <ul style="list-style-type: none"> • single tensile • dual tensile ◆ Understand the calculation of general car and counterweight headroom, excluding: <ul style="list-style-type: none"> • reduction of overhead runby by terminal slow down device • reduction of overhead runby by anti-rebound device <p>6.2 Methods and procedures of overhaul suspension ropes (single wrap with roping ratio 1:1 and carrying capacity 680kg or below)</p> <ul style="list-style-type: none"> ◆ Know the lifting methods and procedures for general cars including: <ul style="list-style-type: none"> • the work of shutdown procedures • the work of safe lifting the car • the work of prevention creeping • the work of resumption operation ◆ Effectively use general lifting gear to lift the car ◆ Use general tools effectively to disassemble and assemble suspension ropes including: <ul style="list-style-type: none"> • the work of prevention creeping of old suspension ropes • the work of termination sockets of old suspension ropes • the work of termination sockets of new suspension ropes • the work of connection between old and new suspension ropes • the work of tension inspection and adjustment |

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| | <p>6.3 Professionalism in disassembling and assembling suspension ropes (half wrap 1:1 roping method and load capacity 680kg or below)</p> <ul style="list-style-type: none"> ◆ Follow manufacturer’s repair instructions and the code of practice for lift work safety to disassemble and assemble suspension ropes ◆ Understand manufacturer’s repair instructions and the code of practice for lift design and construction to test suspension ropes including: <ul style="list-style-type: none"> • termination sockets • rope slacking devices • equalization of tension devices |
| 7. Assessment Criteria | <p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to systematically and efficiently disassemble, assemble and test lift suspension ropes (single wrap with roping ratio 1:1 and carrying capacity 680kg or below) in compliance with the prescribed standards of repair.</p> |
| 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 maintaining general lift suspension ropes.</p> |