

1. Title	Install general lift suspension ropes	
2. Code	EMLEIN205A	
3. Range	Install lift suspension ropes (single wrap with roping ratio 1:1 and carrying capacity 680kg or below) under general situations at construction sites.	
4. Level	2	
5. Credit	3	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <div> <div> <p>6.1 Types, structure and tensile strength of lift suspension ropes and headroom calculations of car and counterweight</p> <p>6.2 Methods and procedures of installing suspension ropes (single wrap with roping ratio 1:1 and carrying capacity 680kg or below)</p> <p>6.3 Professionalism in installing suspension ropes (single wrap with rope ratio 1:1 and carrying capacity 680kg or below)</p> </div> <div> <ul style="list-style-type: none"> ◆ Understand the types of general suspension ropes including: 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 slowdown device • reduction of overhead runby by anti-rebound device ◆ Know the lifting methods and procedures for general cars including: <ul style="list-style-type: none"> • single wrap with roping ratio 1:1 • safety precautions against creeping ◆ Effectively use general lifting gear to lift the car ◆ Use general tools effectively to install suspension ropes including: <ul style="list-style-type: none"> • laying and winding • termination and socket • tension adjustment ◆ Follow manufacturer's installation instructions and the code of practice for lift work safety to install suspension ropes ◆ Understand manufacturer's installation 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 device • equalization of tension devices </div> </div>	

7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to systematically and efficiently install and test lift suspension ropes (single wrap with roping ratio 1:1 and carrying capacity 680kg or below) in compliance with the prescribed standards.</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 hoists.</p>