

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> <p>6.1 Types, structure and tensile strength of lift suspension ropes and headroom calculations of car and counterweight</p> <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 <p>6.2 Methods and procedures of installing 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"> • 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 <p>6.3 Professionalism in installing suspension ropes (single wrap with rope ratio 1:1 and carrying capacity 680kg or below)</p> <ul style="list-style-type: none"> ◆ 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

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (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.
8. Remarks	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.