1. Title	Install suspension ropes of lift
2. Code	EMLEIN306A
3. Range	Arrange and implement the installation works of lift suspension ropes at construction sites.
4. Level	3
5. Credit	3
6. Competency	6.1 Types, structure and tensile strength of lift suspension ropes and calculation of car and counterweight headroom  * Understand different suspension ropes or ropes and calculation of car and counterweight headroom  * Understand the structure of different suspension ropes including:  • fiber core • steel strand • steel wire  * Understand the tensile strength of different suspension ropes including:  • single tensile strength • dual tensile strength • Understand the calculation of overhead runby for different lift cars and counterweights including:  • reduction of overhead runby by using anti-rebound devices
	<ul> <li>6.2 Installation methods and procedures for suspension ropes</li> <li>Enable to select suitable lifting gears</li> <li>Enable to formulate the working procedure lists for lifting different lift cars</li> <li>Enable to formulate the working procedure lists for the suspension ropes with different kinds of wrapping and roping ratio</li> <li>Effectively use different lifting gears to implement and assign completed lifting work for different lift cars including:         <ul> <li>lift cars with single wrap and roping ratio 1:1 or 2:1</li> <li>lift cars with double wrap and roping ratio 1:1 or 2:1</li> <li>anti-creep precautions for lift cars</li> </ul> </li> </ul>

	<ul> <li>♣ Effectively use different tools to implement and assign completed installation work for different suspension ropes including:         <ul> <li>laying of suspension ropes</li> <li>attachment and termination of suspension rope</li> <li>tensioners between suspension ropes</li> <li>anti-creeping works of suspension ropes</li> </ul> </li> <li>Apply manufacturer's installation instructions and the code of practice for lift work safety to implement and assign completed installation work for different suspension ropes</li> <li>Apply manufacturer's installation instructions and the code of practice for lift design and construction to implement and assign completed testing work for different suspension ropes including:</li></ul>
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are:  (i) Capable to arrange and assign completed installation and testing procedures for different lift suspension ropes systematically and through effective communication; and  (ii) Capable to implement completed installation and testing for different lift suspension ropes under general or complicated situations 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 installing general lift suspension ropes.