

1. Title	Install mechanical equipment of lift system at the upper machine room
2. Code	EMLEIN202A
3. Range	Install lift mechanical equipment (traction machine of worm reduction gear with carrying capacity below or equal 680 kg) at upper machine room 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> 6.1 Construction, working principles and installation drawings of lift mechanical equipment at machine room </div> <div> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of general traction machines including: <ul style="list-style-type: none"> • traction machine of worm reduction gear (carrying capacity 680kg or below) ◆ Understand the structure and working principles of general control cabinets including: <ul style="list-style-type: none"> • variable voltage AC drive (carrying capacity 680kg or below) control cabinet • variable voltage variable frequency AC drive (carrying capacity 680kg or below) control cabinet ◆ Understand the structure and working principles of general overspeed governors including: <ul style="list-style-type: none"> • one-way horizontal centrifugal governor ◆ Understand the installation drawings for general machine room's mechanical equipment including: <ul style="list-style-type: none"> • worm reduction gear (load capacity 680kg or below) traction machine • variable voltage AC drive (carrying capacity 680kg or below) control cabinet • variable voltage variable frequency AC drive (carrying capacity 680kg or below) control cabinet • one-way horizontal centrifugal governor </div> </div>

	<p>6.2 Installation methods and procedures for machine room's mechanical equipment</p> <ul style="list-style-type: none"> ◆ Know the installation procedure lists for general machine room's mechanical equipment including: <ul style="list-style-type: none"> • worm reduction gear (carrying capacity 680kg or below) traction machines • variable voltage AC drive (carrying capacity 680kg or below) control cabinet • variable voltage variable frequency AC drive (carrying capacity 680kg or below) control cabine • one-way horizontal centrifugal governor ◆ Effectively use general lifting gear to lift machine room's mechanical equipment ◆ Effectively use general tools and machine room's mechanical equipment installation drawings to install machine room's mechanical equipment <p>6.3 Professionalism in full installation of machine room's mechanical equipment</p> <ul style="list-style-type: none"> ◆ Follow manufacturer's installation instructions and the code of practice for safety at work for lift to install machine room's mechanical equipment ◆ Understand manufacturer's installation instructions and the code of practice for lift design and construction to adjust and test the machine room's mechanical equipment including: <ul style="list-style-type: none"> • worm reduction gear (carrying capacity 680kg or below) traction machines • variable voltage AC drive (carrying capacity 680kg or below) control cabinet • variable voltage variable frequency AC drive (carrying capacity 680kg or below) control cabine • one-way horizontal centrifugal governor
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to systematically and efficiently install lift top machine room's mechanical equipment 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 installing lift mechanical accessories.</p>