1. Title	Install lift machine room's mechanical equipment
2. Code	EMLEIN302A
3. Range	Arrange and implement the installation of lift machine room's mechanical equipment at construction sites.
4. Level	3
5. Credit	3
6. Competency	Performance Requirements
	 6.1 Structure, working principles and installation drawings of lift machine room's mechanical equipment Understand the structure and working principles of different traction machines including: 3-phase AC worm reduction gear traction machines 3-phase AC belical gear traction machines 3-phase AC gearless traction machines Understand the structure and working principles of different control cabinets including: AC Variable Voltage (ACVV) control cabinet AC Variable Voltage Variable Frequency (ACVVVF) control cabinet Understand the structure and working principles of different overspeed governors including: one-way horizontal centrifugal governor two-way horizontal centrifugal governor two-way vertical flyball overspeed governor Understand the installation drawings include: different control cabinets different overspeed governors 6.2 Installation methods and procedures for machine room's mechanical equipment including: different overspeed governors 6.2 Installation methods and procedures for machine room's mechanical equipment including: different overspeed governors 6.3 Installation methods and procedures for machine room's mechanical equipment including: different overspeed governors 6.4 Effectively use different lifting gears to implement and assign full lifting work for different machine room's mechanical equipment

	 Effectively use different tools and installation drawings of different machine room's mechanical equipment to implement and assign full installation work for all kinds of machine room's mechanical equipment
	 6.3 Professionalism in full installation of machine room's mechanical equipment Apply manufacturer's installation instructions and the code of practice for lift work safety to implement and assign full installation work for all kinds of machine room's mechanical equipment Apply manufacturer's installation instructions and the code of practice for lift design and construction to implement and assign full adjustment and testing work for different machine room's mechanical equipment including: 3-phase AC worm reduction gear traction machines 3-phase AC belical gear traction machines 3-phase AC gearless traction machines AC Variable Voltage variable (ACVV) control cabinet AC Variable Voltage Variable Frequency (ACVVVF) control cabinet one-way horizontal centrifugal governor two-way horizontal centrifugal governor
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are:
	 (i) Capable to arrange and assign full installation and adjustment procedures for different lift machine room's mechanical equipment systematically and through effective communication; and (ii) Capable to implement full installation and adjustment different lift machine room's mechanical equipment 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 lift top machine room's mechanical equipment.