1. Title	Overhaul general lift traction machines
2. Code	EMLEOR212A
3. Range	Overhaul lift traction machines (worm reduction gear and carrying capacity 680kg or below) under general situations at field locations.
4. Level	2
5. Credit	3
6. Competency	<u>Performance Requirements</u> 6.1 Structure and working principles of lift traction machines (worm reduction gear) ♦ Understand the structure and working principles of general traction motor including: • DC motor • AC motor ♦ Understand the structure and working principles of general traction machines including: • upper worm shaft type • lower worm shaft type 6.2 Overhaul methods and procedures for traction machines (worm reduction gear with carrying capacity 680kg or below) ♦ Know general lifting methods and procedures of lift car including: • the procedures of shutdown the lift • safety lifting the lift car (single wrap with roping ratio 1:1) • the procedures of resume the lift ♦ Know lifting methods and procedures for general traction machines including: • upper worm shaft type • lower worm shaft type ♦ Effectively use general lifting gear to hoist lift car and traction machines ♦ Use general tools effectively to disassemble and assemble traction machines 6.3 Professionalism in disassembling and assembling traction machines (worm reduction gear and carrying capacity 680kg or below) ♦ Follow manufacturer's repair instructions and the code of practice for lift work safety to disassemble and assemble traction machines ♦ Understand manufacturer's repair instructions and the code of practice for lift design and construction to adjust and test traction machines including: • 3-phase AC upper worm shaft worm reduction gear traction machines • 3-phase AC and DC lower worm shaft worm reduction gear traction machines

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to systematically and efficiently disassemble, assemble and adjust lift traction machines (worm reduction gear and carrying capacity 680kg or below) in compliance with the prescribed standards of repair.
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 traction machines.