

1. Title	Perform the commissioning works of lift
2. Code	EMLEIT401A
3. Range	Arrange and implement the commissioning works of lift at construction sites.
4. Level	4
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles and commissioning data for different lift devices</p> <ul style="list-style-type: none"> ◆ Understand the inspection procedures for different lift devices before connection of the 3-phase main power supply, including: <ul style="list-style-type: none"> • the devices in machine room • the devices inside lift car • the devices in landings • the devices inside lift shaft • the devices in lift pit ◆ Understand the testing and adjustment procedures for different lift devices after connection of the 3-phase main power supply, including: <ul style="list-style-type: none"> • testing of 3-phase power supply phase sequence • adjustment of manual mode of operation • adjustment of car door driving devices • testing and adjustment different control voltages • testing and adjustment different stopping devices • testing and adjustment different devices inside the lift shaft • testing and adjustment of car door locking devices • testing and adjustment of landing doors locking devices ◆ Understand the adjustment procedures for different lift devices before operation of automatically mode, including: <ul style="list-style-type: none"> • adjustment of levelling device • adjustment of floor selector device • final adjustment of working force for braking system • adjustment of car door driving device • adjustment of well terminal limit switch device • adjustment of well monitor deceleration switch device ◆ Understand the testing and adjustment procedures for different devices when operation of automatically mode, including: <ul style="list-style-type: none"> • full load test • weighting device test • leveling device test

	<ul style="list-style-type: none"> • re-leveling device test • well terminal limit switch device test • well monitor deceleration switch device test • adjustment the speed profiles in acceleration , full speed and deceleration at running profiles of short-run, mid-run and long-run respectively <p>6.2 Methods and procedures for lift works of testing and commissioning</p> <ul style="list-style-type: none"> ◆ Understand the commissioning procedures for different lift driving modes system including: <ul style="list-style-type: none"> • Variable voltage variable frequency AC drive • Thyristor-Leonard DC drive • Ward-Leonard DC drive ◆ Formulate the commissioning procedure lists for lifts of different driving modes including: <ul style="list-style-type: none"> • commissioning procedure lists for different lift devices before connection of 3-phase power supply • commissioning procedure lists for different lift devices after connection of 3-phase power supply • commissioning procedure lists for different lift devices before operation of automatically mode • commissioning procedure lists for different lift devices after operation of automatically mode ◆ Effectively use different tools, measuring instruments and different commissioning data to implement and assign completed commissioning work for lifts of all driving modes including: <ul style="list-style-type: none"> • Variable voltage variable frequency AC drive • Thyristor-Leonard DC drive • Ward-Leonard DC drive <p>6.3 Professionalism in handling the completed commissioning works of lifts</p> <ul style="list-style-type: none"> ◆ Apply manufacturer’s installation commissioning instructions and the code of practice for lift design and construction to implement and assign completed adjustment and testing work for lifts of general driving modes
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) apable to arrange and assign completed commissioning procedures for lifts of all driving modes systematically and through effective communication; and (ii) Capable to implement completed commissioning work for lifts of all driving modes under general or complicated situations in compliance with the prescribed standards.
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 implementing general lift debugging.</p>