

1. Title	Perform the works of commissioning for lift
2. Code	EMLEIT301A
3. Range	Arrange and implement the works of commissioning for general lift (rated speed 1.75m/s or below) at construction sites.
4. Level	3
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles and commissioning data for the devices of lift system</p> <ul style="list-style-type: none"> ◆ Understand the inspection works of all the devices for a lift system before the connection of main power supply, including: <ul style="list-style-type: none"> • all the devices in lift machine room • all the devices inside the lift car • all the devices in the landings • all the devices inside the lift shaft • all the devices in the lift pit ◆ Understand the testing and adjustment works of all the devices when connection the main power supply, including: <ul style="list-style-type: none"> • inspection phase sequence for the three phase power supply • inspection and adjustment the manual operation mode • inspection and adjustment the car door driving devices • testing and adjustment the control voltages • testing and adjustment the stopping devices • testing and adjustment the lift well devices • testing and adjustment the car door locking devices • testing and adjustment the landing doors locking devices ◆ Understand the adjustment works of all the devices before the automatic mode operation, including: <ul style="list-style-type: none"> • adjustment of levelling device • adjustment of floor selector device • final adjustment of braking system • adjustment of car door driving device • adjustment of terminal limited switches devices

	<ul style="list-style-type: none"> ◆ Understand the testing and adjustment works of all the devices when turn to automatic mode operation, including: <ul style="list-style-type: none"> • full load test • testing of levelling device • testing of re-levelling device • testing of terminal slow down device (TSD) • testing and adjustment of lift running profile at different speed range including short-run, mid-run and long-run profile ◆ Understand the works of testing and commissioning for general driving mode including: <ul style="list-style-type: none"> • AC single speed driving mode • AC double speed driving mode • AC variable voltage driving mode • AC variable voltage variable frequency variable driving mode • DC variable voltage with MG set driving mode <p>6.2 Methods and procedures of commissioning for lift system</p> <ul style="list-style-type: none"> ◆ Formulate the testing and commissioning procedure lists for lifts of general driving modes and the procedure lists should be included: <ul style="list-style-type: none"> • the devices before the connection of main power supply • the devices when the connection of main power supply • the devices before operation of automatic mode • the devices when turn on the operation of automatic mode ◆ Effectively use different kinds of tools, measuring instruments and testing and commissioning manuals to implement and assign the works of testing and commissioning for general driving modes including: <ul style="list-style-type: none"> • AC single speed driving mode • AC double speed driving mode • AC variable voltage driving mode • AC variable voltage variable frequency driving mode • DC variable voltage with MG set driving mode <p>6.3 Professionalism in full installation debugging of lift</p> <ul style="list-style-type: none"> ◆ Apply manufacturer’s commissioning instructions and the code of practice for lift design and construction to implement and assign completed works of commissioning for lifts of general driving modes
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7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to arrange and assign completed procedures of commissioning for lifts of general driving modes systematically and through effective communication; and (ii) Capable to implement completed works of commissioning for lifts of general driving modes 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 implementing the installation of lift mechanical installations and electrical installations.