

1. Title	Perform commissioning work of escalator
2. Code	EMLEIT304A
3. Range	Arrange and implement escalator debugging 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 of the devices for escalator system</p> <ul style="list-style-type: none"> ◆ Understand inspection requirements of the devices for escalators before connection of main power supply, including: <ul style="list-style-type: none"> • devices in the driving station • the devices inside the truss • the devices outside the truss • devices in the reversing station ◆ Understand the testing and adjustment requirements of the devices for escalators when connection main power supply, including: <ul style="list-style-type: none"> • testing phase sequence of 3-phase power • hand mode operation adjustment • testing and adjustment of control voltages • testing and adjustment of lighting devices • testing and adjustment of stopping devices ◆ Understand adjustment requirements of the devices for escalators before turn on automatic operation, including: <ul style="list-style-type: none"> • adjustment of handrail driving devices • adjustment of key-type automatic startup devices • adjustment of photo-sensor automatic startup devices • adjustment of contact-mat automatic startup devices • final adjustment of working brakes and auxiliary brakes ◆ Understand the testing and adjustment requirements of the devices for escalators when turn on the automatic mode operation, including: <ul style="list-style-type: none"> • full load test • handrail deterioration test • tests on braking distance of working brakes and auxiliary brakes • tests on startup and shutdown operation of key-type automatic startup devices

	<ul style="list-style-type: none"> • tests on startup and shutdown operation of photo-sensor automatic startup devices • tests on startup and shutdown operation of contact-mat automatic startup devices • startup and full speed adjustment for AC star-delta (Y / Δ) driving mode • acceleration, full speed and deceleration adjustment for AC variable voltage variable frequency driving mode <p>6.2 Methods and procedures of commissioning escalators</p> <ul style="list-style-type: none"> ◆ Understand the commissioning requirements of driving modes for escalators including: <ul style="list-style-type: none"> • AC single speed driving mode • AC star-delta driving mode • AC variable voltage variable frequency driving mode ◆ Formulate commissioning procedures of the devices for different kinds driving mode escalators including: <ul style="list-style-type: none"> • the devices before connection main power supply • the devices after power supply is on • the devices before the automatic mode of operation is on • the devices after the automatic mode of operation is on ◆ Effectively use different kinds of tools, instruments and commissioning manuals to implement and assign completed commissioning works for different kinds of driving modes escalator including: <ul style="list-style-type: none"> • AC single speed driving mode • AC star-delta driving mode • AC variable voltage variable frequency driving mode <p>6.3 Professionalism in completed installation commissioning of escalators</p> <ul style="list-style-type: none"> ◆ Apply manufacturer’s installation commissioning instructions and the code of practice for escalator design and construction to implement and assign full adjustment and testing work for escalators of different kinds of driving modes
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to arrange and assign completed commissioning procedures for escalators of different kinds of driving mode systematically and through effective communication; and</p> <p>(ii) Capable to implement completed commissioning work for escalators of different kinds of driving mode under general or complicated situations 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 mechanical installations and electrical installations of escalators.</p>