

1. Title	Install escalator driving devices
2. Code	EMLEIN314A
3. Range	Arrange and implement the installation of escalator driving devices at construction sites.
4. Level	3
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Construction, working principles and installation drawings of escalator driving devices</p> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of different kinds of drive motor including: <ul style="list-style-type: none"> • 3-phase AC induction motor • 3-phase AC permanent-magnet motor ◆ Understand the structure and working principles of different kinds of driving machine including: <ul style="list-style-type: none"> • helical gear driving machines • vertical worm reduction gear driving machines ◆ Understand the structure and working principles of different kinds of brake (electromechanical) including: <ul style="list-style-type: none"> • electromagnetic drum brakes • magnetic disc brakes • auxiliary brakes ◆ Understand installation drawings of different kinds of driving machine including: <ul style="list-style-type: none"> • Installation drawings for different driving motors • Installation drawings for different driving machines • Installation drawings for different brakes <p>6.2 Installation methods and procedures for driving machines</p> <ul style="list-style-type: none"> ◆ Formulate the installation procedure lists for different kinds of driving machine including: <ul style="list-style-type: none"> • select an appropriated list for lifting gears • work site safety equipment lists • work procedure lists for lifting different driving machines • installation procedure lists for different driving machines ◆ Effectively use protective barriers or guards to implement and assign safety measures at work sites including: <ul style="list-style-type: none"> • work site surrounding safety

	<p>6.3 Professionalism in full installation of driving machines</p> <ul style="list-style-type: none"> ◆ Effectively use different lifting gears to implement and assign completed lifting work for different kinds of driving machines ◆ Effectively use different tools and installation drawings to implement and assign completed installation and adjustment work for different kinds of driving machine ◆ Apply manufacturer’s installation instructions and the code of practice for escalator work safety to implement and assign completed installation work for different driving machines ◆ Apply manufacturer’s installation instructions and the code of practice for escalator design and construction to implement and assign completed adjustment and testing work of different driving machines including: <ul style="list-style-type: none"> • working brakes and auxiliary brakes • 3-phase AC helical gear driving machines • 3-phase AC vertical worm reduction gear driving machines
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to arrange and assign completed installation, adjustment and testing procedures for escalator driving devices systematically and through effective communication; and</p> <p>(ii) Capable to implement completed installation, adjustment and testing of escalator driving devices 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 basic mechanical installations of escalators.</p>