

1. Title	Overhaul escalator driving devices
2. Code	EMLEOR329A
3. Range	Arrange and implement overhauls of escalator driving devices at field locations.
4. Level	3
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Structure and working principles of escalator driving machines</p> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of different drive motors 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 all kinds of driving machines including: <ul style="list-style-type: none"> • helical gear driving machine • vertical worm reduction gear driving machine ◆ Understand the structure and working principles of different electromechanical brakes including: <ul style="list-style-type: none"> • magnetic drum brake • magnetic disc brake • auxiliary brake <p>6.2 Overhaul methods and procedures for driving machines</p> <ul style="list-style-type: none"> ◆ Formulate overhaul procedure lists for different driving machines including: <ul style="list-style-type: none"> • selection lists for different suitable lifting gears • work site safety equipment lists • work procedure lists for lifting 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"> • safety preparation works for escalator shutdown • safety precaution works for surrounding • safety works for resumption operation ◆ Effectively use different lifting gears to implement and assign completed lifting work for different driving machines ◆ Effectively use different tools to implement and assign completed disassembly and assembly work for different driving machines

	<p>6.3 Professionalism in completed disassembly and assembly of driving machines</p> <ul style="list-style-type: none"> ◆ Apply manufacturer’s repair instructions and the code of practice for escalator work safety to implement and assign completed disassembly and assembly work for different driving machines ◆ Apply manufacturer’s repair instructions and the code of practice for escalator design and construction to implement and assign completed adjustment and testing work for different driving machines including: <ul style="list-style-type: none"> • 3-phase AC helical gear driving machine • 3-phase AC vertical worm reduction gear driving machine
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to arrange and assign completed inspection, disassembly, assembly and adjustment procedures for escalator driving devices systematically and through effective communication; and (ii) Capable to implement completed inspection, disassembly, assembly and adjustment of escalator driving devices under general or complicated situations in compliance with the prescribed standards of repair.
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person already possesses knowledge and skills in overhauling general escalator driving devices.</p>