

1. Title	Maintain electrical components of escalators
2. Code	EMLEOR328A
3. Range	Arrange and implement the maintenance works of escalator's electrical components 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's electrical components</p> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of different control cabinets including: <ul style="list-style-type: none"> • single speed AC drive (AC 1) control cabinet • AC star-delta driven (AC Y /Δ) control cabinet • variable voltage variable frequency AC drive (ACVVVF) control cabinet ◆ Understand the structure and working principles of different lighting devices including: <ul style="list-style-type: none"> • step lighting • lighting at the balustrade interior panelling • lighting at the interior profile ◆ Understand the structure and working principles of different startup devices including: <ul style="list-style-type: none"> • manually-operated startup key • photo-sensor of automatically startup device • contact-mat automatically startup device ◆ Understand the structure and working principles of different emergency stop devices, including power supply phase sequence detector, motor overload detector, overspeed governor overspeed detector, broken driving chain device, handrail inlet protective device, emergency stop device, combplate safety device, step wheel and step chain wheel monitoring devices, skirting safety device and broken step chain device <p>6.2 Methods and procedures of maintaining electrical components</p> <ul style="list-style-type: none"> ◆ Know the repair and maintenance of electrical components including the procedures of inspection, cleaning, oiling and testing ◆ Know the repair and maintenance of all kinds of electrical components including: <ul style="list-style-type: none"> • control cabinet • lighting • startup device • stop device

	<ul style="list-style-type: none"> ◆ Arrange and implement maintenance instructions for escalator's electrical components ◆ Effectively use repairing and testing instruments and tools <p>6.3 Professionalism in maintaining escalator's electrical components</p> <ul style="list-style-type: none"> ◆ Follow manufacturer's maintenance instructions to maintain the electrical components ◆ Understand the requirements of safety guidelines and the code of practice for escalator in order to maintain the electrical components
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to master the construction and key points of repair and maintenance of escalator's electrical components; (ii) Capable to systematically and effectively complete the repair and maintenance of escalator's electrical components; (iii) Capable to arrange and implement the maintenance instructions for escalator's electrical components; and (iv) Capable to follow manufacturer's maintenance instructions to arrange and implement the maintenance of escalator's electrical components.
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of maintaining electrical elements of general escalators.</p>