

1. Title	Maintain driving devices of general escalators						
2. Code	EMLEOR221A						
3. Range	Maintain escalator driving devices (worm reduction gear and vertical height 3m or below) under general situations at field locations.						
4. Level	2						
5. Credit	3						
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <table border="0"> <tr> <td style="vertical-align: top;">6.1 Structure and working principles of escalator driving machines (worm reduction gear)</td><td> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of general driving motors of 3-phase AC induction type ◆ Understand the structure and working principles of general driving machines of vertical type worm reduction gear ◆ Understand the structure and working principles of general electro-mechanical brakes including: <ul style="list-style-type: none"> • brake drum of operating brakes • auxiliary brakes </td></tr> <tr> <td style="vertical-align: top;">6.2 Methods and procedures of maintaining driving devices</td><td> <ul style="list-style-type: none"> ◆ Know the repair and maintenance of driving devices and the works include with the inspection, cleaning and oiling ◆ Know the repair and maintenance of driving machines including: <ul style="list-style-type: none"> • motor • gearbox • brakes • driving system ◆ Use general repairing and testing instruments and tools effectively </td></tr> <tr> <td style="vertical-align: top;">6.3 Professionalism in maintaining escalator driving devices</td><td> <ul style="list-style-type: none"> ◆ Follow manufacturer's maintenance instructions to maintain the driving devices ◆ Understand the requirements of safety guidelines and the code of practice for escalator in order to maintain the driving devices </td></tr> </table>	6.1 Structure and working principles of escalator driving machines (worm reduction gear)	<ul style="list-style-type: none"> ◆ Understand the structure and working principles of general driving motors of 3-phase AC induction type ◆ Understand the structure and working principles of general driving machines of vertical type worm reduction gear ◆ Understand the structure and working principles of general electro-mechanical brakes including: <ul style="list-style-type: none"> • brake drum of operating brakes • auxiliary brakes 	6.2 Methods and procedures of maintaining driving devices	<ul style="list-style-type: none"> ◆ Know the repair and maintenance of driving devices and the works include with the inspection, cleaning and oiling ◆ Know the repair and maintenance of driving machines including: <ul style="list-style-type: none"> • motor • gearbox • brakes • driving system ◆ Use general repairing and testing instruments and tools effectively 	6.3 Professionalism in maintaining escalator driving devices	<ul style="list-style-type: none"> ◆ Follow manufacturer's maintenance instructions to maintain the driving devices ◆ Understand the requirements of safety guidelines and the code of practice for escalator in order to maintain the driving devices
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to systematically and effectively complete the maintenance of escalator driving devices; and</p> <p>(ii) Capable to clearly explain the construction and the key points of maintenance of driving devices.</p>						
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of using general repairing and testing instruments and tools.						