

1. Title	Install escalator step chains
2. Code	EMLEIN316A
3. Range	Arrange and implement the installation of escalator step chains 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 step chain devices</p> <ul style="list-style-type: none"> <li>◆ Understand the structure and working principles of different kinds of step chain driving wheel including: <ul style="list-style-type: none"> <li>• driving wheels of long pitch (one pitch length /step) step chain driving wheels</li> <li>• driving wheels of short pitch step chain driving wheels</li> </ul> </li> <li>◆ Understand the structure and working principles of different kinds of step chain including: <ul style="list-style-type: none"> <li>• long pitch step chain</li> <li>• short pitch step chain</li> </ul> </li> <li>◆ Understand the structure and working principles of different kinds of step chain tension wheel including: <ul style="list-style-type: none"> <li>• tension wheels of long pitch step chain</li> <li>• tension wheels of short pitch step chain</li> </ul> </li> <li>◆ Understand the installation drawings of different kinds of step chain device including: <ul style="list-style-type: none"> <li>• different step chain driving wheels</li> <li>• different step chain</li> <li>• different step chain tension wheels</li> </ul> </li> </ul> <p>6.2 Installation methods and procedures for step chain devices</p> <ul style="list-style-type: none"> <li>◆ Formulate the installation procedure lists for different kinds of step chain device including: <ul style="list-style-type: none"> <li>• lists for selecting all kinds of suitable lifting gears</li> <li>• work site safety equipment lists</li> <li>• work procedure lists for different step chain driving wheels</li> <li>• work procedure lists for different step chains</li> <li>• work procedure lists for different step chain tension wheels</li> </ul> </li> <li>◆ Effectively use protective barriers or guards to implement and assign safety measures at work sites including: <ul style="list-style-type: none"> <li>• work site surrounding safety</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>◆ Effectively use different lifting gears to implement and assign completed lifting work for different kinds of step chain devices</li> <li>◆ Effectively use different tools to implement and assign completed installation and adjustment work for different step chain devices</li> </ul> <p>6.3 Professionalism in full installation of step chain devices</p> <ul style="list-style-type: none"> <li>◆ Apply manufacturer's installation instructions and the code of practice for escalator work safety to implement and assign completed installation work for different step chain devices</li> <li>◆ 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 kinds of step chain device including: <ul style="list-style-type: none"> <li>• long pitch step chain driving devices</li> <li>• short pitch step chain driving devices</li> </ul> </li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>(i) Capable to arrange and assign completed installation, adjustment and testing procedures for escalator step chain devices systematically and through effective communication; and</li> <li>(ii) Capable to implement completed installation, adjustment and testing of escalator step chain devices under general or complicated situations in compliance with the prescribed standards.</li> </ul>
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>