

1. Title	Install and replace lifting wire ropes		
2. Code	EMPEIN210A		
3. Range	Perform lifting wire rope installation and replacement routines in general industrial plants, power plants or other places.		
4. Level	2		
5. Credits	3		
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Noting points for installing and replacing lifting wire ropes</p> <ul style="list-style-type: none"> ◆ Understand the noting points for installing and replacing lifting wire ropes <ul style="list-style-type: none"> • Requirements of the code of practice • Wire rope types and applications ◆ Understand the safety concerns during installation and replacement, including: <ul style="list-style-type: none"> • Use of tools and personal equipment • Temperature and gas released when cutting the wire rope <p>6.2 Lifting wire rope installation and replacement procedures</p> <ul style="list-style-type: none"> ◆ Know how to install the lifting wire ropes to the lifting machine, including: <ul style="list-style-type: none"> • Confirming that the wire rope for installation meets the specification required • Drawing the wire rope from the reel or wire rope coil correctly • Adjusting the length of wire rope appropriately, and maintain the structural integrity in the process of cutting • Checking the wire rope operation after installation • Trial-running the lifting installation slightly loaded after installation, and keep the wire rope attached smoothly to the contact roller of the installation ◆ Select and use the installation tools and instruments properly <p>6.3 Professionalism in installing and replacing lifting wire ropes</p> <ul style="list-style-type: none"> ◆ Follow the requirements of the codes of practice and wire rope manufacturer's installation guide to perform lifting wire rope installation and replacement under instruction ◆ Ensure that the installation and replacement techniques meet the installation requirements and quality standards under instruction ◆ Assist in performing load test 		

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to select and use appropriate tools to complete the installation and replacement of lifting wire ropes under instruction ; (ii) Capable to understand the procedures and safety issues for lifting wire rope installation and replacement; and (iii) Capable to understand manufacturer’s requirements on wire rope replacement.
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic mechanical installation skills and basic knowledge of the properties of wire rope materials.</p>