

1. Title	Assess the condition of lifting wire ropes
2. Code	EMPEIT401A
3. Range	Assess the condition of lifting wire ropes in general industrial plants, power plants or other places.
4. Level	4
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Inspection scope for lifting wire ropes</p> <ul style="list-style-type: none"> <li>◆ Know about the inspection scope for lifting wire ropes, including: <ul style="list-style-type: none"> <li>• Relevant regulations such as L. N. 285 of 1993 controlling the total number of broken wires in the wire rope for lifting work</li> <li>• Know about the types and properties of wire ropes and kinds of damage in general</li> <li>• Items and methods of inspection</li> </ul> </li> </ul> <p>6.2 Methods and procedures of inspecting lifting wire ropes</p> <ul style="list-style-type: none"> <li>◆ Perform inspection on wire ropes, including: <ul style="list-style-type: none"> <li>• Lubricating condition</li> <li>• Measuring wire rope diameter and conducting visual check on the wearing condition</li> <li>• Monitoring on any wire rope overload causing wearing</li> <li>• Total number of broken wires</li> <li>• Kink</li> <li>• Fold</li> </ul> </li> </ul> <p>6.3 Professionalism in assessing lifting wire ropes</p> <ul style="list-style-type: none"> <li>◆ Conduct wire rope assessment regularly</li> <li>◆ Judge according to the inspection result if it is necessary to replace the lifting wire ropes</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to conduct lifting wire rope inspection;</p> <p>(ii) Capable to clearly state the regulations controlling the condition of lifting wire ropes in use and methods of inspecting them; and</p> <p>(iii) Capable to assess the safe condition of lifting wire ropes.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of the use of basic personal protection/inspection gear and lubrication tools and the competency of EMPEIT305A “Inspect lifting wire ropes”.