

1. Title	Operate and maintain abrasive wheels safely
2. Code	EMCUIN315A
3. Range	Operate all kinds of abrasive wheels in workshops or work sites.
4. Level	3
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Methods of operating abrasive wheels</p> <ul style="list-style-type: none"> <li>◆ Be familiar with the safe operation of abrasive wheels, including: <ul style="list-style-type: none"> <li>• Maximum permissible speed of abrasive wheel in different size (speed of abrasive wheel)</li> <li>• Speed of spindle</li> <li>• Protective guard for moving abrasive wheel</li> <li>• Gap between the cutter block and abrasive wheel</li> <li>• Ensure that the abrasive wheel has been fitted securely before use</li> <li>• Effective devices to connect and disconnect power supply must be available for the abrasive wheel used in the machinery</li> <li>• Suitable working environment e.g. no materials without tied</li> </ul> </li> </ul> <p>6.2 Maintenance of abrasive wheel</p> <ul style="list-style-type: none"> <li>◆ Be familiar with the maintenance of abrasive wheel, including: <ul style="list-style-type: none"> <li>• Repair of the protective guard</li> <li>• Repair of the rest</li> <li>• Reconditioning of the abrasive wheel</li> </ul> </li> </ul> <p>6.3 Operation and maintenance procedures for abrasive wheel</p> <ul style="list-style-type: none"> <li>◆ Know how to choose suitable abrasive wheels for different kinds of work</li> <li>◆ Know the needs and principles of regularly repairing and maintaining abrasive wheel, including the procedures of inspection, maintenance and alignment</li> <li>◆ Use general repairing and checking instruments and tools effectively</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to operate abrasive wheels safely;</p> <p>(ii) Capable to choose suitable abrasive wheels for different kinds of work; and</p> <p>(iii) Capable to perform routine maintenance and fault repair of abrasive wheels effectively.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of occupational safety and machinery/materials.