

1. Title	Supervise the operation and fault handling of machineries	
2. Code	EMPERM405A	
3. Range	Supervise the operation and fault handling of machineries in general industrial plants, power plants or other places.	
4. Level	4	
5. Credits	6	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1      Operating principle and functions of various types of machineries</p> <ul style="list-style-type: none"> <li>◆ Understand the functions, advantages and limitations of various types of machineries</li> <li>◆ Know the classification of various types of machineries according to their functional properties</li> <li>◆ Select appropriate machineries for machining according to the characteristics and requirements of the work piece</li> </ul> <p>6.2      Methods and procedures for machine tool operation and fault handling</p> <ul style="list-style-type: none"> <li>◆ Know the names of the materials, properties and handling requirements for the work piece stated in the machining drawing <ul style="list-style-type: none"> <li>• Linear dimension requirements</li> <li>• Linear tolerance requirements</li> <li>• Geometric tolerance requirements</li> <li>• Limits and Fit and IT grade</li> <li>• National/international standards</li> <li>• Meaning of isometric projection</li> </ul> </li> <li>◆ Analyze the workmanship of machining of the work piece, including: <ul style="list-style-type: none"> <li>• Relationship of machine tooling to the whole machining process</li> <li>• Setting the number and sequence of procedures according to the type, technical requirements and batch size of the work piece</li> <li>• Formulating the content and sequence of steps for machining procedures</li> <li>• Setting the cutting allowance, dimension and geometric tolerance, and isometric projection</li> <li>• Guaranteeing that the engineering procedures manufacture products as required</li> </ul> </li> <li>◆ Perform precision inspection and fault elimination and supervise the precision testing of machineries <ul style="list-style-type: none"> <li>• Inspect the rail accuracy of machineries</li> <li>• Inspect the geometric accuracy and driving accuracy of machineries</li> <li>• Analyze and eliminate common faults of machineries</li> </ul> </li> </ul>	

	<p>6.3 Professionalism in supervising machinerys operation and fault handling</p> <ul style="list-style-type: none"> <li>◆ Follow manufacturer’s guidelines and procedures to perform supervision and fault handling tasks for machineries</li> <li>◆ Machinery operation should comply with the code of safety and practical guidelines</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 supervise machinery operation and fault handling;</li> <li>(ii) Capable to complete test for work, including the correct layout, installation test and required standard;</li> <li>(iii) Capable to compile supervisory report on machinery operation; and</li> <li>(iv) Capable to clearly report the operation and fault handling of machineries.</li> </ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic mechanical knowledge and techniques of operating machineries, and is familiar with the common faults of machineries.</p>