

**Specification of Competency Standards**  
**for the Manufacturing Technology Industry**  
**Unit of Competency**

Functional Area - Product Quality Control and Testing

Title	Metal parts surface inspection
Code	106380L2
Range	This unit of competency is applicable to the quality control department of the metal products industry corporation. Practitioners should be capable to identify all kinds of metal parts surface defects and carry out metal parts surface inspection
Level	2
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> <li>1. Understand metal parts surface defects and inspection standards <ul style="list-style-type: none"> <li>• Know all kinds of possible surface defects of metal, including scratches, dents, rust and deformation</li> <li>• Understand all metal surface defect inspection methods and techniques</li> <li>• Understand corporate and customers specification for surface inspection of metal parts, inspection methods, auxiliary inspection tools, environmental condition and the class accept standard of the metal parts</li> </ul> </li> <li>2. Carry out metal parts surface inspections <ul style="list-style-type: none"> <li>• Carry out appearance inspection of metal parts and record relevant defects in details</li> <li>• According to the appearance inspection standards and golden samples, determine whether the appearance of the metal part is qualified</li> <li>• Effectively distinguish the surface defects of metal parts</li> <li>• Operate ancillary tools for appearance inspection correctly, such as a microscope and magnifier</li> </ul> </li> <li>3. Professional handling of metal parts surface inspections <ul style="list-style-type: none"> <li>• Follow the safety guidelines and related operational practise of metal parts surface inspections, ensure the safety of inspection procedures, stability of inspection equipment and accuracy of inspection results</li> </ul> </li> </ol>
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>• Capable to carry out all kinds of testing of metal materials in accordance with the drawing and inspection requirements, and determine if the metal parts surface is qualified</li> </ul>
Remark	