

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

Functional Area - Product Quality Control and Testing

Title	Metal parts surface defects analysis
Code	106530L4
Range	This unit of competency is applicable to the quality control department of the metal products industry corporation. Practitioners should be capable to understand the causes of all kinds of metal parts surface defects and carry out analysis and improvement
Level	4
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand relevant knowledge of metal parts surface defects analysis and improvement</p> <ul style="list-style-type: none"> <li>• Understand all kinds of possible surface defects of metal, including scratches, dents, rust, material shortage and deformation</li> <li>• Understanding the causes of all metal surface defects and improving methods</li> <li>• Understand relevant inspection methods and techniques of all kinds of metal parts surface defects</li> <li>• Understand the commonly used methods of metal parts surface defects analysis and improvement</li> </ul> <p>2. Metal parts surface defects analysis and improvement</p> <ul style="list-style-type: none"> <li>• Effectively distinguish the surface defects of metal parts</li> <li>• Collect relevant records and data of metal parts surface inspection, and carry out defects analysis</li> <li>• Examine the production line if there is adverse to make metal parts surface defects and make adjustments and improvements</li> <li>• Track and monitor effectiveness of improvement measures</li> <li>• Write and summary quality reports of the quality of metal parts surface defects analysis and improvement</li> </ul> <p>3. Professional handling of metal parts surface defects analysis and improvement</p> <ul style="list-style-type: none"> <li>• Ensure the effectiveness of metal parts surface defects analysis and improvement</li> </ul>
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 metal parts surface defects analysis and improvement and track and monitor effectiveness of improvement measures</li> <li>• Capable to write and summary quality reports of the quality of metal parts surface defects analysis and improvement</li> </ul>
Remark	