

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

Functional Area - Product Manufacturing

Title	Marking processing
Code	106424L3
Range	This unit of competency is applicable to the production department of the corporation of metal product manufacturing industry. Practitioners should be capable understand the relevant knowledge of marking surface, so as to carry out marking surface and solve production problems
Level	3
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand relevant knowledge of marking surface</p> <ul style="list-style-type: none"> <li>• Understand all kinds of marking technologies, methods, techniques and final effects, such as laser marking, corrosion marking, engraving marking and mechanical marking (steam-driven and hydraulic etc) (</li> <li>• Understand the types, structures, working principles, specifications, applications and operating methods of different marking surface equipment</li> <li>• Understand technical parameters settings of marking machines, including marking depth, marking speed, width of minimum line, the smallest character and marking range</li> <li>• Understand common marking defects, such as, cracks, missing word and inaccuracy of line words</li> </ul> <p>2. Carry out marking surface</p> <ul style="list-style-type: none"> <li>• Determine whether the product is suitable for different types of marking</li> <li>• Adjust the parameters of marking machines in accordance with different substrate and quality requirements</li> <li>• Select the right marking equipment for marking and carry out general maintenance</li> <li>• Review the production efficiency of marking</li> <li>• Identify the types of marking defects and prevent and repair defects</li> <li>• Systematically analyse the quality problems of the product after marking and make improvements</li> </ul> <p>3. Professional handling of marking surface</p> <ul style="list-style-type: none"> <li>• Follow safety guidelines and related codes of practice, in accordance with the technologies and techniques, product specifications and production efficiency requirements, carry out marking for metal products</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 marking and solve production problems in accordance with the drawings and requirements of technologies and techniques</li> <li>• Capable to operate the equipment and supporting tools of marking independently and make simple daily maintenance</li> </ul>
Remark	