

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

Functional Area - Product Manufacturing

Title	Surface printing
Code	106425L3
Range	This unit of competency is applicable to the production department of the corporation of metal surface printing industry. Practitioners should be capable understand the knowledge of surface printing, so as to carry out surface printing and solve production problems.
Level	3
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand relevant knowledge of surface printing</p> <ul style="list-style-type: none"> <li>• Understand all kinds of technologies, methods, techniques and final effects of surface printing, such as flat silk screen printing and transfer printing</li> <li>• Recognise the different types, structures, working principles, specifications, applications, and operating methods of surface printing equipment</li> <li>• Understand the common types of ink, such as UV inks, dry ink, high temperature ink and low temperature thermal ink</li> <li>• Understand the common defects of surface printing, such as breakage of silk screen, oil and not enough adhesion</li> <li>• Understand the method of mixing ink colour</li> </ul> <p>2. Carry out surface printing</p> <ul style="list-style-type: none"> <li>• Determine whether the product is suitable for different types of surface printing</li> <li>• According to different substrate and quality requirements, carry out appropriate adjustments, such as screen specifications and frame size, types of ink, the baking temperature and time</li> <li>• Select the right equipment and tools for surface printing, and carry out general maintenance</li> <li>• Review the production efficiency of surface printing</li> <li>• Determine the type of defects after surface printing and prevent and repair the defects</li> <li>• Systematically analyse quality problems of products after surface printing and make improvements</li> </ul> <p>3. Professional handling of surface printing</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 metal surface printing for 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 surface printing 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 surface printing independently and make simple daily maintenance</li> </ul>
Remark	