

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

Functional Area - Product Manufacturing

Title	Intermediate coating
Code	106522L4
Range	This unit of competency is applicable to the production department of the corporation of metal coating industry. Practitioners should be capable to understand a higher level of the knowledge of coating, manage intermediate coating, solve the production problems and improve the techniques and technologies
Level	4
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> <li>1. Understand the techniques and technologies of intermediate coating <ul style="list-style-type: none"> <li>• Understand the structure and principles of coating equipment, including liquid electrostatic powder coating equipment, electrostatic spraying equipment and vacuum coating equipment</li> <li>• Understand the theory and defect causes the coating film, including dust/ lint, orange wrinkles peel structure, colour changes and uneven colour</li> <li>• Understand the causes and repair methods of defects, such as painting environment, painting tools, drying method and coating method</li> <li>• Understand all kinds of paint and coating of inspection items, such as paint viscosity, film hardness, coating adhesion, coating color, and resistance of film</li> <li>• Recognise the industry's latest coating technology, such as color spray</li> </ul> </li> <li>2. Carry out intermediate coating <ul style="list-style-type: none"> <li>• Correctly select and maintain the coating equipment, including understanding all spraying equipment and specifications, planning the processes and layout of paint shop, and know how to preventatively maintain all spraying equipment</li> <li>• According to the quality requirements of substrate, select the coating material and methods</li> <li>• Correctly identify and systematically analyse the common quality problems and causes of coating products and improve them</li> <li>• Carry out improve treatment for defective products and rework them</li> <li>• Prevent and repair the defects, and evaluate and improve the old coating</li> <li>• Perform all kinds of inspection and determine the test results accurately</li> <li>• Examine the production efficiency of coating and carry out continuous improvement</li> <li>• Carry out simple adjustments, maintenance and repair of common coating equipment</li> <li>• Examine if the required chemicals in the coating process is safely stored and comply with the laws and regulations</li> </ul> </li> <li>3. Professional handling of intermediate coating <ul style="list-style-type: none"> <li>• Follow safety guidelines and related codes of practice, in accordance with the requirements of technologies and techniques, product specifications and production efficiency, carry out intermediate coating</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 manage the relevant techniques and technologies of coating independently and examine if the required chemicals in the coating process is safely stored and comply with the laws and regulations</li> <li>• Capable to coordinate the workpiece material and product requirements, compile the relevant techniques and technologies process</li> </ul>

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	<ul style="list-style-type: none"><li>• Capable to solve the problems of intermediate coating and carry out continuously improvement</li></ul>
Remark	