

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

Functional Area - Product Design and Development

Title	Surface finishing of plastic product prototypes
Code	106372L2
Range	This unit of competency is applicable to design and development departments of plastic products manufacturing corporations. Practitioners should be capable to master the skills of the plastic product prototypes surface finishing, and carry out polishing.
Level	2
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand the applications of tools for polishing</p> <ul style="list-style-type: none"> <li>• Understand principles and applications of polishing.</li> <li>• Understand the polishing skills of different plastic materials</li> <li>• Understand the applications and methods of different polishing tools</li> <li>• Understand the required equipment, tools and materials for different polishing methods, and based on the requirements of materials and prototypes to make suitable selection</li> </ul> <p>2. Carry out polishing of plastic products prototypes</p> <ul style="list-style-type: none"> <li>• Follow the requirements of drawings or product design, select suitable polishing methods, tools and materials</li> <li>• According to the requirements of quality, time and cost, operate suitable equipment to complete polishing tasks</li> <li>• Check the appearance, size and geometric shape, and ensure the sample functions and operations will not be affected due to polishing</li> </ul> <p>3. Professional handling of surface finishing of plastic product prototypes</p> <ul style="list-style-type: none"> <li>• Consider safety, risk, capacity, quality, environmental protection, etc in detail, carry out polishing for plastic product samples and meet all aspects of requirements</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 explain and select different tools and materials for polishing.</li> <li>• Capable to ensure the variance of dimensions will not affect the functions and operations of the prototypes after polishing.</li> </ul>
Remark	