

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

Functional Area - Process Design and Development

Title	Know plastic products process, and communicate with customers and internal departments
Code	106493L4
Range	This unit of competency is applicable to the markets and sales departments of the plastic product manufacturing industries. Practitioners should be capable to understand the general concept of the plastic product manufacturing process, and apply in daily work
Level	4
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand the general concept of plastic product manufacturing process</p> <ul style="list-style-type: none"> <li>• Understand the commonly used characteristics of plastic products process, such as injection moulding, blow moulding, vacuum molding, plastic extruding, thermoforming and rotational moulding</li> <li>• Understand the requirements of the drawings, such as tolerance, materials, surface treatment and testing specifications</li> <li>• Recognise the types, working principle, applications and specifications of the commonly used plastic product processing equipment</li> <li>• Recognise different plastic product automation processing and testing processes, methods and equipment</li> <li>• Recognise the latest developments of plastic product manufacturing processes and methods in the industry</li> </ul> <p>2. Apply the plastic product process concept</p> <ul style="list-style-type: none"> <li>• Read and explain all requirements of the drawings</li> <li>• Preliminary determine the manufacturing methods of plastic products, such as the number of process, surface treatment and selection of materials</li> <li>• Preliminary assess the degree of difficulty of plastic product manufacturing, equipment needed and resources coordination</li> <li>• Preliminary estimate the plastic product manufacturing costs and assist making quotations</li> </ul> <p>3. Professional handling of the plastic product process concept</p> <ul style="list-style-type: none"> <li>• Continuously absorb the knowledge of plastic product design and manufacturing techniques and technologies, and meet the development trend of the industry</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 read and explain all requirements of the drawings, preliminary assess the manufacturing process, number of processes, materials and equipment needed of plastic products</li> <li>• Capable to preliminary estimate the plastic product manufacturing costs and assist making quotations</li> </ul>
Remark	