

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

Functional Area - Process Design and Development

Title	Know metal products manufacturing process, and communicate with customers and internal departments
Code	106491L4
Range	This unit of competency is applicable to the markets and sales departments of the metal product manufacturing industries. Practitioners should be capable to understand the general concept of the metal 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 metal product manufacturing process</p> <ul style="list-style-type: none"> <li>• Understand the characteristics of common manufacturing processes of metal product, such as stamping, die casting, foundry and extrusion</li> <li>• Understand the requirements of the drawings, such as tolerance, materials, surface treatment and testing specifications</li> <li>• Understand customers requirements of quality standard</li> <li>• Recognise the types, working principle, applications and specifications of the commonly used metal product processing equipment</li> <li>• Recognise different metal product automation processing and testing processes, methods and equipment</li> <li>• Recognise the latest developments of metal product manufacturing processes and methods in the industry</li> </ul> <p>2. Apply the general concept of metal product manufacturing 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 metal products, such as the number of process, surface treatment and selection of materials</li> <li>• Preliminary assess the degree of difficulty of metal product manufacturing, equipment needed and resources coordination</li> <li>• Preliminary estimate the metal product manufacturing costs and assist in making quotations</li> </ul> <p>3. Professional handling of application of general concept of metal product manufacturing process</p> <ul style="list-style-type: none"> <li>• Continuously absorb the knowledge of metal 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 determine the manufacturing methods of metal products, such as the number of process, surface treatment and selection of materials</li> <li>• Capable to preliminary estimate the metal product manufacturing costs and assist making quotations</li> </ul>
Remark	