

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

Functional Area - Product Design and Development

Title	Other metal stamping die integrated and functional design
Code	106470L4
Range	This unit of competency is applicable to the design and development departments of Manufacturing Technology Industry. Practitioners should be capable to be familiar with the principles of other stamping dies (e.g. wire and tube materials), integrate customers requirements and relevant international standards, carry out other metal stamping die integrated and functional design
Level	4
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> 1. Understand relevant knowledge of other metal stamping die integrated and functional design <ul style="list-style-type: none"> • Understand the customer's requirements on appearance and functions • Understand relevant international standards of other metal stamping die • Understand the manufacturing process and its features of other stamping dies (e.g. wire and tube materials), including strip, milling, heat treatment, EDM, wire cutting, grinding and polishing • Recognise all types and applications of metal wires, tubes and thick plate stamping forming and materials of other metal stamping dies • Understand the commonly used types and specifications of surface treatment of other sheet metal stamping die • Recognise the commonly used types, structures, specifications and working principles of the commonly used equipment of other metal stamping 2. Other metal stamping die integrated and functional design <ul style="list-style-type: none"> • Carry out all kinds of wire single and progressive stamping die design • Carry out all kinds of die design of single stamping and hydroforming of tube materials • Carry out all kinds of integrated and progressive die design of fine blanking • Carry out wire die design of Multi-Slide Forming of wires and sheet metal • In response to the requirements of different products, select the appropriate die materials, manufacture all kinds of wires, tubes and different parts of thick plate dies • According to the appearance and functionality required of different products, select the appropriate mould for surface treatment • Communicate with internal and external customers and stakeholders and achieve consistent standards 3. Professional handling of other metal stamping die integrated and functional design <ul style="list-style-type: none"> • Detailedly consider elements such as safety, risk, productivity, quality, environmental protection and cost, carry out integrated and functional design of other metal stamping(e.g. wire and tube materials) and meet all aspects of requirements
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to collect and integrate customers requirements and relevant international standards, formulate the integrated design of other metal stamping(e.g. wire and tube materials) • Capable to consider the appearance and functions requirements of products, complete the overall structural design of other metal stamping(e.g. wire and tube materials)
Remark	