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

## Functional Area - Product Design and Development

106468L4 This unit of competency is applicable to the design and development departments of Manufacturing Technology Industry. Practitioners should be capable to carry out sheet metal
stamping single die and compound die functional design in accordance with the combination of sheet metal mould design and structural design
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<ul> <li>(For Reference Only)</li> <li>Performance Requirements <ol> <li>Understand the customer's requirements on appearance and functions, such as flashing burr, surface appearance and connection point</li> <li>Understand the customer's requirements on appearance and functions, such as flashing burr, surface appearance and connection point</li> <li>Understand relevant international standard of sheet metal stamping single die and compound die functional design</li> <li>Understand the types, structures and designs of single die, including punching, bending, rolling, forming, forging, embossing</li> <li>Understand the principles and relationships of punching and blanking</li> <li>Understand the calculation of punching pressure</li> <li>Understand the characteristics of the radius of bending and the moulding material</li> <li>Understand the computation of the expanded length of the bending materials</li> <li>Understand the computation of the expanded length of the bending materials</li> <li>Understand the computation of the finished products of the rolling blank</li> <li>Understand the computation of the finished products of the rolling blank</li> <li>Understand the computation ilmitations of the design and production of compound die of stamping procedure</li> <li>Recognise the product application limitations of surface treatment of sheet metal stamping die</li> <li>Carry out sheet metal stamping single die and compound die of punches, guide plate, stripper, and dies of bending, blanking, rolling, forming, forging and embossing</li> </ol> </li> <li>According to the integrated design of metal stamping. Segnifications and working principles of the commonly used types, structures, specifications and working principles of the commonly used types, structures, specifications and working principles of the commonly used types, and compound die functional design</li> <li>According to the integrated design of metal stamping. Forming, forging and embossing</li> <li>Carry out sheet metal stamping single die and compound die</li></ul>
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	<ul> <li>According to the requirements of different products, select the appropriate die and steel</li> <li>According to different functional design requirements, select the appropriate die surface treatment</li> <li>Communicate with internal and external customers and stakeholders and achieve consistent standards</li> <li>3. Professional handling of sheet metal stamping single die and compound die functional design</li> </ul>
	<ul> <li>Detailedly consider elements such as safety, risk, productivity, quality, environmental protection and cost, carry out sheet metal stamping single die and compound die functional design and meet all aspects of requirements</li> </ul>
Assessment Criteria	<ul> <li>The integrated outcome requirements of this unit of competency are:</li> <li>Capable to base on the integrated sheet metal stamping single die and compound die and structural design, set the appropriate tolerance and processing and complete sheet metal stamping single die and compound die functional design</li> <li>Capable to draw all workpiece drawing, provide appropriate instructions and ensure the content is accurate</li> </ul>
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