

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

Functional Area - Product Manufacturing

Title	Adjust stamping equipment, carry out all kinds of metal stamping processing and resolve production problems
Code	106415L3
Range	This unit of competency is applicable to the production department of the corporation of metal stamping manufacturing industry. Practitioners should be capable to understand the knowledge of adjusting stamping equipment, carrying out all kinds of metal stamping processing, so as to carry out all kinds of processing and resolving production problems
Level	3
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand the relevant knowledge of adjusting stamping equipment, carry out all kinds of metal stamping processing</p> <ul style="list-style-type: none"> • Understand the types of commonly used sheet metal materials, such as SPHC, SPCC, SECC, SGCC, low / high hardness of copper, low / high hardness of aluminium, stainless steel and silicon steel • Understand the principles and applications of various machining processes, including punching, bending, forming, stretching, forging, extrusion and coining • Understand relevant equipment of adjusting stamping and the processing method and techniques • Understand the properties of all kinds of sheet metal materials, such as physical performance, chemical performance and mechanical performance • Understand the common product defects of various forms of sheet metal stamping, including burrs, scratches, burns, bending and rebound, deformation, wrinkles, burst, material shortage and orange peel structure • Understand the types, structures, working principle, specifications, applications and operating methods of stamping machines and other related processing equipment <p>2. Carry out all kinds of metal stamping processing</p> <ul style="list-style-type: none"> • Correctly identify the specifications of sheet metal materials • Select and operate the right equipment and carry out a variety of processing for different materials • According to the factors of production volume, product shape, precision, materials, tooling size, select the appropriate stamping machine and carry out sheet metal stamping processing • Effectively adjust the stamping machine, assemble and disassemble and correct all kinds of tooling • Carry out simple adjustments, maintenance and repair for stamping machines • Identify and systematically analyse the common quality problems and causes of stamping processing and carry out improvement <p>3. Professional handling of carrying out all kinds of metal stamping processing</p> <ul style="list-style-type: none"> • Follow safety guidelines and related codes of practice, in accordance with product specifications and production efficiency requirements, carry out various forms of sheet metal stamping and effectively solve all kinds of production problems
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to adjust stamping equipment and carry out all kinds of stamping processing in accordance with the drawing and requirements of technologies and techniques, and solve production problems

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	<ul style="list-style-type: none">• Capable to supervise the conditions of stamping machines and carry out simple daily maintenance
Remark	