

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

Functional Area - Product Manufacturing

Title	Stamping of new sheet metal and alloy materials
Code	106517L4
Range	This unit of competency is applicable to the production department of the corporation of metal product manufacturing industry. Practitioners should be capable to understand the knowledge of stamping of new sheet metal and alloy materials, so as to carry out new sheet metal and alloy materials stamping and solve production problems
Level	4
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand the characteristics of techniques and technologies of stamping of new sheet metal and alloy materials</p> <ul style="list-style-type: none"> • Understand the types and applications of new sheet metal and alloy materials, including magnesium alloys, titanium alloys and metallic glass • Understand the characteristics of all kinds of new sheet metal and alloy materials, such as physical performance, chemical performance and mechanical performance • Understand other processing methods and techniques of stamping of new sheet metal and alloy materials • Understand the structure, mould steel and other features of stamping moulds of new sheet metal and alloy materials • Recognise the types, structures, working principles, specifications, applications and operating methods of the relevant equipment of stamping of new sheet metal and alloy materials <p>2. Carry out stamping of new sheet metal and alloy materials</p> <ul style="list-style-type: none"> • Proper identification of the specifications of new sheet metal and alloy materials • According to the factors of production volumn, product shape, precision, materials, tooling size, select the appropriate equipment of new sheet metal and alloy materials • Carry out stamping of new sheet metal and alloy materials, and identify and systematically analyse and the common processing quality problems, and improve them • Carry out simple adjustments, maintenance and repair of new sheet metal and alloy materials stamping machines, commonly used equipment and tools <p>3. Professional handling of new sheet metal and alloy materials stamping</p> <ul style="list-style-type: none"> • Follow safety guidelines (such as considering the flammable properties of magnesium alloys)and related codes of practice, in accordance with product specifications and production efficiency requirements of stamping of new sheet metal and alloy materials
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to carry out new sheet metal and alloy materials stamping and solve production problems in accordance with the drawings and requirements of technologies and techniques • Capable to operate the equipment of new sheet metal and alloy materials independently and make simple daily maintenance
Remark	