

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

Functional Area - Product Manufacturing

Title	Secondary processing on die casting and foundry metal parts
Code	106419L3
Range	This unit of competency is applicable to the production department of the corporation of metal stamping and foundry product manufacturing industry. Practitioners should be capable understand the knowledge of secondary operations on die casting and foundry metal parts, so as to carry out secondary operations on die casting and foundry metal parts and solve production problems.
Level	3
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> 1. Understand the technologies and techniques of secondary operations on die casting and foundry metal parts <ul style="list-style-type: none"> • Understand the principle and application of secondary operations on die casting and foundry metal parts, including batch of flowers, deburring, parting line grinding, drilling, sprue shearing, sprue leveling, grinding, polishing and trimming • Understand the methods and techniques of secondary operations on die casting and foundry metal parts • Understand the common product defects of secondary operations on die casting and foundry metal parts, including oxidation, corrosion and discoloration • Recognise the types, structures, working principles, specifications, applications and operating methods of the relevant equipment of secondary operations on die casting and foundry metal parts 2. Carry out secondary operations on die casting and foundry metal parts <ul style="list-style-type: none"> • Select and operate the correct equipment, and carry out secondary operations on die casting and foundry metal parts • Adjust, control and optimise the secondary operations parameters, such as grinding volume, polishing speed and abrasive, so as to reach the standards of product quality and production efficiency • Determine whether the products are suitable for secondary operation • Identify and systematically analyse the common quality problems of secondary operations on die casting and foundry metal parts and improve them 3. Professional handling of secondary operations on die casting and foundry metal parts <ul style="list-style-type: none"> • Follow safety guidelines and related codes of practice, in accordance with product specifications and production efficiency requirements of secondary operations on die casting and foundry metal parts
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to carry out secondary operations on die casting and foundry metal parts in accordance with the drawing and requirements of technologies and techniques, and solve production problems • Capable to independently operate the commonly used relevant equipment of secondary operations on die casting and foundry metal parts and carry out simple daily maintenance.
Remark	