

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

Functional Area - Product Manufacturing

Title	Operate die casting and foundry equipment for production
Code	106376L2
Range	This unit of competency is applicable to the production department of metal die casting and foundry products manufacturing corporations. Practitioners should be capable to understand the relevant equipment, so as to carry out die-casting and foundry processing.
Level	2
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand relevant knowledge of die-casting and foundry equipment operation and processing</p> <ul style="list-style-type: none"> • Understand the types and grades of commonly used material of die-casting and foundry industry • Understand types, structures, working mechanism, specifications, applications and operation methods of the relevant equipment and devices for die-casting and foundry processing • Understand processing methods and skills of die-casting and foundry • Know the common defects of die-casting and foundry, such as gas hole, shrinkage, porosity, cold mark and deformation <p>2. Carry out metal die-casting and foundry processing</p> <ul style="list-style-type: none"> • Correctly identify the specifications of materials for die-casting and foundry processing • Use each device of die-casting and foundry equipment correctly, such as safety and control devices • Follow instruction to carry out die-casting and foundry processing • Identify if tooling are correctly installed • Report the problems occurred during die-casting and foundry processing to supervisor • Carry out simple repair after die-casting and foundry processing, such as deburring • Carry out simple preventive maintenance for die-casting and foundry equipment under supervision <p>3. Professional handling of die-casting and foundry equipment operation and processing</p> <ul style="list-style-type: none"> • Follow safety guidelines and relevant regulations, and follow instructions to carry out die-casting and foundry processing
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to follow instructions to operate die-casting and foundry processing equipment, and also carry out all kinds of die-casting and foundry processing. • Capable to report the problems occurred during in die-casting and foundry to supervisor.
Remark	