

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

Functional Area - Product Quality Control and Testing

Title	Mould testing
Code	106528L4
Range	This unit of competency is applicable to the production and quality control department of the tooling industry corporation. Practitioners should be capable to understand the knowledge of tooling testing and carry out all kinds of tooling testing in shopfloor
Level	4
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand the knowledge of tooling testing</p> <ul style="list-style-type: none"> • Understand relevant requirements of tooling testing guidelines of the corporation, such as the number of proofing, machine requirements, and material requirements • Understand all internal defects of the tooling, such as runner balance, cavity design and cooling circuit design • Understand the principles, methods and techniques of tooling testing • Understand the types, structure, functions and features of the tooling • Understand the applications of tooling testing equipment • Understand all abnormal characteristics, causes, and solutions of tooling testing <p>2. Carry out tooling testing</p> <ul style="list-style-type: none"> • Operate common injection moulding, metal stamping, die casting, foundry and other testing equipment, such as mould temperature controllers of injection moulding • Confirm if the tooling has scratches, missing parts or loose before tooling testing • Operation relevant production equipment, such as injection machines, stamping machines, and all die casting equipment • Carry out tooling testing and record relevant parameters, such as the shut height, tooling temperature, retaining and cooling time • Check if the appearance and dimensions of the testing sample meets the requirements of the drawings • Solving common problems during tooling testing of metal stamping, such as burrs, crumbs and crush in the products • Solving common problems during tooling testing of injection moulding, such as poor release and poor demould • Solve common problems during tooling testing of metal die casting, foundry and extrusion, such as the local shrinkage of the product, poor shaping <p>3. Professional handling of understand the knowledge of tooling testing</p> <ul style="list-style-type: none"> • Follow the safety guidelines and related operational codes of tooling testing, ensure the safety of inspection procedures and accuracy of inspection results
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to carry out tooling testing in accordance with the drawings and techniques and technologies requirements, and solve the problems found in the process of tooling testing • Capable to check if the appearance and dimensions of the testing sample meets the requirements of the drawings
Remark	