

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

Functional Area - Product Quality Control and Testing

Title	Set up and maintain tooling management system
Code	106592L5
Range	This unit of competency is applicable to product development, production and quality control department of corporation of tooling manufacturing industry. Practitioners should be capable to meet the existing quality management system, build, manage and continuously improve tooling management system, norms in line with international and regional requirements of the tooling test, measurement, inspection and management methods
Level	5
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> 1. Understand relevant knowledge of set up and maintenance of tooling management system <ul style="list-style-type: none"> • Understand the quality management system of the corporation • Understand and coordinate different types of moulds with the international and regional standards and requirements of test, measurement, inspection and management, such as ISO 9001, VDA 6.4, and the American plastics industry Plastics Engineers Standards (SPI / SPE Standard) • Understand all kinds of tooling testing methods • Understand the type, structure, function and features of Injection moulding, metal stamping, casting and other tooling • Understand metrology and its applications • Know the concept and methods of Product Life Cycle Management, PLM of products and tooling, including CAD, CAM, PDM and PLM system • Know all kinds of PLM system software in the market, its application, advantages and disadvantages 2. Set up and maintenance of tooling management system <ul style="list-style-type: none"> • Build and preventatively maintain the tooling management system • Define the scope of application of tooling management system • Formulate internal test, measurement and management regulations which meet international and regional requirements • Meet the existing quality management system, set up additional elements of the tooling which meet the management needs, including the quality manual, work instruction, various record table, as well as amendments to the assessment checklist • In accordance with the assessment report and the parts which do not meet the report, provide suggestions for management improvement and also follow up the corrective measures • Examine products and tooling PLM systems, and to assess the feasibility of PLM business development and selection of suitable PLM / cloud PLM system 3. Professional handling of set up and maintenance of tooling management system <ul style="list-style-type: none"> • Record the past tooling testing, measuring and inspection methods, and accidents happened, continuously improve safety testing and inspection procedures, while improve the efficiency measure and improve the management system
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to meet the existing quality management system, build and preventatively maintain • Capable to provide suggestions for management improvement and also follow up the corrective measures on tooling testing, measurement, inspection and management.

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