

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

Functional Area - Product Quality Control and Testing

Title	Apply all kinds of testing standards, select and arrange all kinds of tests which meet the requirements of products, and analyze quality assurance reports
Code	106532L4
Range	This unit of competency is applicable to all quality control department of the corporation of Manufacturing Technology Industry. Practitioners should be capable to apply all kinds of testing standards in accordance with product nature and category, select and arrange all kinds of tests which meet the requirements of products, and analyse quality assurance reports
Level	4
Credit	9 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand relevant knowledge of all kinds of testing standards</p> <ul style="list-style-type: none"> • Understand the relevant international and regional test requirements, such as EN71 16 CFR 1500 ASTM F963 of Toy Industry, IEC60335 CISPR 14 RoHS WEEE of Appliance Industry and IEC60601, MDD 47, CFR 18 of Medical Device Industry • Understand the international and regional product certification requirements, such as the CCC product certification of Mainland China, UL Mark of the US, CE Mark and ENEC Mark of Europe, CSA Mark of Canada, KC Mark of Korea, S Mark of Japan and GS Mark of Germany • Understand all types of tests, such as mechanical testing, physical testing, chemical testing and fire test • Understand the range and limitations of all kinds of testing standards • Recognise the commonly used types, working principle, applications, operation methods and limitations of test equipment • Understand the latest development trends and techniques of testing methods • Understand the relevant channels of providing complex test service organisations <p>2. Monitor and standardise all kinds of testing methods</p> <ul style="list-style-type: none"> • In accordance with international and regional standards, distinguish the product testing standards, select and arrange the appropriate testing methods • Regularly review the latest international and industry standards related to product testing and certification marks, and clarify the required changes of testing locations and characteristics • Examine and evaluate the effectiveness and reliability of the measure data of all kinds of testing methods, and continuous improve it • Communicate and explain testing standards with the accredited testing services organisations, monitor if the complex testing or certification comply with requirements • Compile relevant guidelines, standardise all kinds of testing methods and carry out regular monitoring • Apply quality tools, analyse all data in the quality report, assist to improve the quality of semi-finished and finished products of the production line • Regularly examine the tests and report of the third-party laboratory to interpret the level <p>3. Professional handling of monitor and standardisation of all kinds of testing methods</p> <ul style="list-style-type: none"> • Ensure the compiled testing methods are accepted by customers and comply with international standards • Ensure that the surveyors operate the compiled testing methods
Assessment Criteria	The integrated outcome requirements of this unit of competency are:

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	<ul style="list-style-type: none">• Capable to comply with international and regional testing standards, select and arrange the appropriate testing methods for product• Capable to compile relevant guidelines, standardise all kinds of testing methods and carry out regular monitoring• Capable to examine and evaluate the effectiveness and reliability of the measure data of all kinds of testing methods, and continuous improve it• Capable to analyse all data in the quality report, assist to improve the quality of semi-finished and finished products of the production line
Remark	