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

Functional Area - Product Design and Development

Title	Arrange prototype testing according to product requirements
Code	106393L3
Range	This unit of competency is applicable to each design and development departments of manufacturing technology industry. Practitioners should be capable to master relevant international and regional testing and product certification knowledge of the industry, so as to arrange all kinds of sample testing.
Level	3
Credit	3 （For Reference Only）
Competency	Performance Requirements 1. Understand all kinds of testing requirement and product certification • Understand relevant international and regional testing requirements, such as Toy Industry: EN71, 16 CFR 1500, ASTM F963; Electrical Appliances Industry: IEC60335, CISPR 14, RoHS, WEEE; Medical Device Industry: IEC60601 MDD 47 CFR 18. • Understand international and regional product certification, such as CCC product certification of China, UL Mark of America, CE Mark and ENEC Mark of Europe, CSA Mark of Canada, KC Mark of Korea, S Mark of Japan and GS Mark of Germany. 2. According to testing requirements, arrange sample testing • According to the corporate testing equipment configuration, select suitable testing equipment and carry out general testing for samples. • Select suitable third-party testing agency, carry out suitable arrangement for complex mechanical, physical and chemical testing requirement • According to product characteristics, product design or production procedure, evaluate if the product meets the relevant standard, and provide recommendations on product design and production procedure 3. Professional handling of arranging sample testing • Ensure specifications of sample testing meet the customers requirements and international standard
Assessment Criteria	The integrated outcome requirements of this unit of competency are: • Capable to base on different customers requirements and relevant international standard, arrange suitable testing (including third-party testing) for samples.
Remark	