

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

Functional Area - Product Design and Development

Title	Computer aided simulation on product functional testing
Code	106576L5
Range	This unit of competency is applicable to design and development departments of Manufacturing Technology Industry. Practitioners should be familiar with relevant knowledge of product functional testing and carry out computer aided simulation on product functional testing in accordance with requirements
Level	5
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> 1. Understand relevant knowledge of computer aided simulation on product functional testing <ul style="list-style-type: none"> • Understand the types, purposes, applications and restrictions of the commonly used CAE system in the industry CAE • Recognise the latest development conditions of CAE (CAE) • Understand the general test items and test purpose of computer aided simulation on product functional testing 2. Carry out computer aided simulation on product functional testing <ul style="list-style-type: none"> • Select and apply appropriate CAE system, carry out computer aided simulation testing on product functional design, such as the product characteristics of strength and impact load CAE • Collect and store the relevant information and data of computer aided simulation on product functional testing • According to the characteristics of products, product design or manufacturing process to evaluate whether the product meets the relevant standards, and make improvement recommendations on product design or production process • Compile reports of computer aided simulation on product functional testing 3. Professional handling of computer aided simulation on product functional testing <ul style="list-style-type: none"> • Ensure the computer aided simulation on product functional testing is accurate
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to select and apply appropriate CAE system, carry out computer aided simulation on product functional testing and make improvement recommendations on product design or production process • Capable to compile reports of computer aided simulation on product functional testing and ensure the accuracy
Remark	