

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

Functional Area - Product Design and Development

Title	Carry out product computer aided industrial design and outlook simulation
Code	106482L4
Range	This unit of competency is applicable to each design and development departments of Manufacturing Technology Industry. Practitioners should be capable to be familiar with computer aided industrial design and outlook simulation, and apply them on the product design (CAID)
Level	4
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> <li>1. Understand relevant knowledge of product computer aided industrial design and outlook simulation <ul style="list-style-type: none"> <li>• Understand the types, purposes, applications and restrictions of the commonly used CAID in the industry system</li> <li>• Recognise the latest development in product computer aided industrial design (CAID) system</li> <li>• Understand the techniques and operation methods of outlook simulation</li> </ul> </li> <li>2. Carry out product computer aided industrial design and outlook simulation <ul style="list-style-type: none"> <li>• Select and operate commonly used CAID system to carry out complex 3D curve and entity model drawing, construction and alterations</li> <li>• Effectively apply and operate CAID systems to set webpage and carry out control</li> <li>• Collect and preserve relevant information and data of product computer aided industrial design and outlook simulation</li> <li>• Apply the simulation analysis to calculate the data of 3D model</li> </ul> </li> <li>3. Professional handling of carrying out product computer aided industrial design and outlook simulation <ul style="list-style-type: none"> <li>• Ensure all contents and information of carrying out product computer aided industrial design and outlook simulation are accurate</li> </ul> </li> </ol>
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>• Capable to select and operate appropriate CAID system, carry out product computer aided industrial design and outlook simulation</li> <li>• Capable to collect and preserve relevant information and data of product computer aided industrial design and outlook simulation</li> </ul>
Remark	