

Specification of Competency Standards
for the Jewellery Industry
Unit of Competency

Functional Area - Technology Support

Title	Know about computer technologies and supporting techniques for jewellery
Code	108971L3
Range	This unit of competency is applicable to practitioners working in the research and development department of jewellery organizations. Practitioners should be capable of making careful analysis and judgments. They should be able to understand various kinds of computer technologies and supporting techniques for jewellery, so as to obtain information on the industry's latest computer technologies for analysis and application purposes, and provide supporting services to industry-related computer technologies or software.
Level	3
Credit	6
Competency	<p>Performance Requirements</p> <p>1. Know about computer technologies for jewellery</p> <ul style="list-style-type: none"> • Know about the commonly used computer systems in the jewellery industry, including: <ul style="list-style-type: none"> ○ Computer-aided industrial design (CAID) ○ Computer-aided design (CAD) ○ Computer-aided manufacturing (CAM) ○ E-commerce • Know about the development trend of computer technologies for jewellery, such as: <ul style="list-style-type: none"> ○ E-marketing ○ Web-enabled 3-D interactive marketing and commerce system ○ 3-D scanning system and reverse engineering ○ Understand the use of 3-D printing technology ○ Know about the uses of display effect technologies, such as: <ul style="list-style-type: none"> ▪ Virtual reality ▪ Augmented reality ▪ Mixed reality ○ Know about the latest functions in drawing and rendering effects of 3-D jewellery design software, such as: <ul style="list-style-type: none"> ▪ JewelCAD, JewelCAD Pro ▪ Rhino or Rhnio3D, Rhinoceros, RhinoGold ▪ Matrix ▪ 3Design ▪ Solidworks ▪ Unigraphics NX ▪ Pro/Engineer or Pro E <p>2. Apply computer technologies and supporting techniques for jewellery</p> <ul style="list-style-type: none"> • Master and apply the commonly used computer systems and software as well as computer technologies and supporting techniques in the jewellery industry <p>3. Professionalism</p> <ul style="list-style-type: none"> • Avoid plagiarism when collecting information on the industry's latest computer technologies to prevent individuals and the organization from falling into the trap of infringement of intellectual property rights
Assessment Criteria	The integrated outcome requirements of this unit of competency are:

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	<ul style="list-style-type: none">• Able to understand the industry-related computer systems and their relationships with corporate/organizational operation; and• Obtain information on the industry's latest computer technologies, so as to provide supporting services to various kinds of computer techniques or software in the jewellery industry.
Remark	