

Specification of Competency Standards
for the Jewellery Industry
Unit of Competency

Functional Area - Design □

Title	Apply technological innovations of jewellery in jewellery design
Code	108896L4
Range	This unit of competency is applicable to designers working in the jewellery design department of the jewellery industry. Practitioners should be capable of making careful analysis and judgment, and using technological innovations of jewellery to design jewellery and make jewellery prototypes and models.
Level	4
Credit	9
Competency	Performance Requirements 1. Know about the technological innovations that can facilitate jewellery design and understand the importance of intellectual property in jewellery design • Know about various kinds of new technologies applied in jewellery design, such as: ○ 3-D computer-aided design and computer-aided drawing (CAD) software ○ Computer numerical control (CNC) machining technology ○ Rapid prototyping (RP) technology ○ Solid modeling software ○ 3-D scanning technology ○ Other technologies, including: virtual reality, augmented reality, mixed reality, big data, etc. • Understand intellectual property and do not copy other people's works when using technological innovations to design jewellery 2. Apply technological innovations in design workflow • Master the operation methods of various kinds of technological innovations • Use various kinds of software to design jewellery and apply the image data of the design to various modeling equipment to make models • Make use of high-tech production technology to design jewellery, so as to enhance the quality and market value of the products 3. Professionalism • Respect intellectual property and avoid plagiarism, preventing 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: • Able to use 3-D software in jewellery design workflow; and • Use technological innovations of jewellery to make jewellery prototypes and models, so as to speed up the manufacturing process of design products and enhance the quality and market value of the products.
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