Specification of Competency Standards for the Jewellery Industry <u>Unit of Competency</u>

1. Title	Apply CAD/CAM technologies in jewellery manufacturing
2. Code	JLZZPD302A
3. Range	This unit of competency is applicable in computer-to-plate (CTP) department or design department. Practitioners should be capable to make analysis independently according to the information contained in the hand-drawn design sketch. They should also be capable to draw computerized design for jewellery by using CAD 3-D software to tie in with manufacturing procedure, thus fulfilling the requirements of design display and rapid prototyping.
4. Level	3
5. Credit	6
6. Competency	6.1 Understand the structure of the jewellery and the requirement of design sketch Stone-setting methods and the size of chains Performance Requirements Know about the requirement of design sketch Capable to construct 3-D pattern for jewellery jewellery Stone-setting methods and the size of the collet The structure of movable links of chains
	 Master the operation of CAD software Determine the size and measurement of the jewellery and ring size Master the weight of the materials used Prepare materials for replacement as a result of shrinkage from die-casting Master the allocation of materials and lighting techniques necessary for 3-D design

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to understand thoroughly the manufacturing operations and make analysis independently according to the information contained in the hand-drawn design sketch, and draw computerized design for jewellery by using CAD 3-D software; and (ii) Capable to match with manufacturing operations to effectively fulfill the
	requirement of design display and rapid prototyping.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person concerned already possesses knowledge of computer application.