

Specification of Competency Standards
for the Jewellery Industry
Unit of Competency

Functional Area - Production

Title	Manufacture silver jewellery models (rings/pendants/brooches/earrings)
Code	108949L3
Range	This unit of competency is applicable to practitioners working in the goldsmithing department of jewellery manufacturing organizations. Practitioners should be capable of making judgment and employing goldsmithing techniques to make various silver models for vulcanizing purposes according to the requirements of the design sketches under instruction. They should also be able to analyze and assess manufacturing operations from the production perspective, so as to enhance the cost effectiveness of production.
Level	3
Credit	9
Competency	Performance Requirements 1. Understand the production theory of silver jewellery models • Master the techniques for constructing the 3-D structural design from the sketch of graphic design • Know about the structure of jewellery and the assembly of components, such as: ○ Ring shank ○ Pendant bail ○ Brooch pinstem ○ Ear nut, ear clip and ear hook of earrings • Know about the casting workflow • Know about jewellery trimming techniques • Estimate the shrinkage from vulcanizing and casting • Know the requirements and distribution of sprues 2. Manufacture silver jewellery models • Master the quality/weight of the materials used for the jewellery products • Master the structure of collets and its relationship with the gemstones • Master exquisite gold casting techniques and make various kinds of silver jewellery models to match with the casting workflow • Master the preparation work prior to manufacturing silver jewellery models 3. Professionalism • Following the requirements of the organization, code of practice and safety guidelines, manufacture silver jewellery models with a professional attitude • Make various kinds of silver jewellery models with goldsmithing techniques strictly according to the requirements of the design sketches of the organization or customers
Assessment Criteria	The integrated outcome requirements of this unit of competency are: • Able to employ goldsmithing techniques to make various kinds of silver models of ring/pendant/brooch/earring jewellery series according to the requirements of the design sketches to meet the casting workflow, and analyze and assess the manufacturing operations from the production perspective; and • Control the weight of gold used in the finished jewellery products to enhance the cost effectiveness of production.
Remark	