

Specification of Competency Standards
for the Jewellery Industry
Unit of Competency

Functional Area - Production

Title	Carve wax models for jewellery products
Code	108923L2
Range	This unit of competency is applicable to practitioners working in the jewellery wax model department of jewellery manufacturing organizations. Practitioners should understand clearly the principle of wax model carving and the characteristics of wax. They should be capable of employing carving techniques to carve different kinds of wax models to cope with the casting workflow according to the design sketch under instruction in the daily working environment.
Level	2
Credit	6
Competency	<p>Performance Requirements</p> <p>1. Understand the principle of wax model carving</p> <ul style="list-style-type: none"> • Master the techniques of constructing the 3-D structural design from a 2-D graphic design sketch • Know about the characteristics of various kinds of wax • Know about the structures of jewellery and the assembly of parts • Know about the casting workflow of jewellery • Know about mould trimming techniques • Estimate the extent of material shrinkage from vulcanizing • Master the demand and distribution of sprues <p>2. Wax model carving for jewellery products</p> <ul style="list-style-type: none"> • Master the weight of the finished jewellery products • Master the structures of collets and their relationship with the gemstone • Master the operation of wax carving tools, such as: <ul style="list-style-type: none"> ○ Carving tools ○ Basic goldsmithing tools and equipment ○ Vernier callipers and inside callipers ○ Electric wax welder <p>3. Professionalism</p> <ul style="list-style-type: none"> • Following the requirements of the organization, code of practice and safety guidelines, carve wax models for jewellery products with a professional attitude
Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> • Able to use various wax carving tools and equipment safely, and employ carving techniques to carve different kinds of wax models to cope with the casting workflow according to the design sketch under instruction.
Remark	