

Specification of Competency Standards for the Jewellery Industry
Unit of Competency

1. Title	Carve wax model for jewellery products
2. Code	JLZZPD205A
3. Range	This unit of competency is applicable in wax model manufacturing workplaces. Practitioners should be capable to understand clearly the principle of wax model carving and the characteristics of wax. They should also be capable to employ carving techniques to carve different kinds of wax models to cope with the casting workflow according to the design sketch under instruction.
4. Level	2
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand the principle of wax model carving</p> <ul style="list-style-type: none"> ◆ Master the technique of constructing 3-D structural design from graphic design sketch ◆ Know about the characteristics of various kinds of wax ◆ Know about the structure of jewellery and the assembly of parts ◆ Know about the casting workflow ◆ Know about mould trimming technique ◆ Estimate the shrinkage from vulcanizing ◆ Master the demand and distribution of sprues

	<p>6.2 Wax model carving for jewellery products</p> <ul style="list-style-type: none"> ◆ Master the weight of the finished jewellery product ◆ Master the structure of the collet and its relationship with the gemstone ◆ Operate wax carving tools, such as: <ul style="list-style-type: none"> • Operate carving tools • Operate basic goldsmithing tools and equipments • Master Vernier Calipers and Inside Calipers • Operate electric wax welder
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to understand thoroughly the principle of wax model carving to carve different kinds of wax models for jewellery products according to the design sketch under instruction; and (ii) Capable to master the thickness of wax model, estimate the materials shrinking from vulcanizing and control the weight of gold used for the finished jewellery product to meet the casting workflow.
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person concerned already possesses the knowledge of the basic workflow in jewellery manufacturing.</p>