

Specification of Competency Standards for the Jewellery Industry
Unit of Competency

1. Title	Master casting techniques	
2. Code	JLZZPD206A	
3. Range	This unit of competency is applicable in casting worksites. Practitioners should be capable to master the workflow of lost wax casting and operate relevant equipments to duplicate various kinds of precious metal castings from wax prototypes to meet production workflow.	
4. Level	2	
5. Credit	9	
6. Competency	<p style="text-align: right;"><u>Performance Requirements</u></p> <p>6.1 Know about the procedure of lost wax casting</p> <ul style="list-style-type: none"> ◆ Know about the characteristics and application of various kinds of vulcanizing rubber ◆ Know about the characteristics of various kinds of injection wax ◆ Know about treeing arrangement ◆ Know about the principle of vacuum treatment for investing ◆ Know about the workflow of the burnout process ◆ Know about the melting point and specific gravity of precious metals <p>6.2 Master duplicating the moulds and casting techniques</p> <ul style="list-style-type: none"> ◆ Master mould packing technique ◆ Master vulcanizing technique ◆ Master rubber mould cutting technique ◆ Master wax injection technique ◆ Master wax mould trimming technique ◆ Master treeing technique ◆ Master Investing technique ◆ Master the burnout process technique ◆ Master casting technique ◆ Master remove casting powder and sprue 	

<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 master the workflow of lost wax casting and the techniques of vulcanizing and rubber mould cutting, so as to duplicate the wax models into complete wax moulds; and (ii) Capable to operate casting equipments to cast out complete precious metal castings to meet production workflow under instruction.
<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 basic workflow in jewellery manufacturing.</p>