Specification of Competency Standards for the Jewellery Industry Unit of Competency

Functional Area - Production

Title	Master wax setting and casting techniques for jewellery products
Code	108925L2
Range	This unit of competency is applicable to practitioners working in the jewellery casting departmen of jewellery manufacturing organizations. Practitioners should be capable of mastering the techniques of setting gemstones on wax models before casting. They should also be able to duplicate various kinds of jewellery castings by following the workflow of lost wax casting and operating relevant equipment, so as to meet the production workflow.
Level	2
Credit	3
Competency	 Performance Requirements Know about wax setting and casting techniques Know about the advantages of wax setting and casting techniques Save time and increase productivity Reduce labour costs Reduce loss of metal Only simple tools are required for wax setting, so as to reduce the use of other tools and thus reduce costs The design can be reinvented as some jewellery design can only be created through wax setting Know about the tools and equipment required for wax setting Gemstone measuring tools Wax head stone setter tools Stone setting machine with temperature control Vacuum thermal micro wax setting machine Know about the process of wax setting and casting Gemstone setting preparation Inspect the gemstones Create notches Place the gemstones Create notches Position Setting the stones Wax mould trimming Investing De-waxing and burnout process Casting Mould cooling and removal Know about the requirements on gemstones/jewellery alloys for wax setting and casting Know about the requirements on setting in wax setting and casting Know about the requirements on gemstones/jewellery alloys for wax setting and casting

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	 Master jewellery casting techniques to perform wax setting and casting Master the solutions to common problems in wax setting and casting
	3. Professionalism
	 Following the requirements of the organization, code of practice and safety guidelines, carry out wax setting and casting with a professional attitude
Assessment Criteria	The integrated outcome requirements of this unit of competency are:
	 Able to master major wax setting techniques, such as for prong setting, pavé setting, channel setting and bar setting; and Duplicate various kinds of jewellery castings by following the workflow of lost wax casting and operating relevant equipment, so as to meet the production workflow.
Remark	