Specification of Competency Standards for the Jewellery Industry Unit of Competency

Functional Area - Production

Title	Master jewellery electroforming techniques
Code	108951L3
Range	This unit of competency is applicable to practitioners working in the electroforming department of jewellery manufacturing organizations. Practitioners should be capable of mastering the use of electroforming equipment and the preparation of electroforming solutions. They should be able to independently operate electroforming equipment safely to complete electroforming processes for precious metals (fine gold/pure silver/karat gold) in accordance with the relevant legislations, operational guidelines and safety guidelines on electroforming. The products include hollow display items and ornaments.
Level	3
Credit	9
Competency	Performance Requirements 1. Understand the electroforming operation Know about the procedure of the electroforming process O Wax model production Carving model Mould duplication and cutting Wax injection Nould timming Electroforming hollow models Installing hangers Applying silver solution/conductive coating Electroforming Surface treatment Frimming and sand-papering De-waxing and removing the silver solution Applying an acid solution Know how to solve the problem of electroforming defects Know the relevant legislations on electroforming Sufface and environmental protection ordinances Know how to use chemical drugs safely Know how to use chemical drugs safely Know the recovery treatment of electroforming solutions of precious metals Control the electroforming effects Control the electroforming effects Control the electroforming effects Master the techniques for electroforming solutions of precious metals Control the electroforming effects The weight of the finished product, which is directly affected by the thickness of the electroformed layer The impact of the duration of electroforming The impact of the duration of electroforming The impact of the duration of electroforming The surface of the duration of electroforming Control the misched product, which is directly affected by the thickness of the electroformed layer The impact of the duration of electroforming Control the misched product, which is directly affected by the thickness of the electroformed layer The impact of the duration of electroforming Control the misched product, which is directly affected by the thickness of the electroformed layer Control the misched product, which is directly affected by the thickness of the electroformed layer Control the misched product, which is directly affected by the thickness of the electroformed layer Control the misched product, which is directly affected by the thickness of the electroformed layer Control the misched product, which is directly affected by the thickness of

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	 The impact of the temperature of the electroforming solution on the electroformed item The control of the current and voltage Prepare the electroforming solutions Replenish gold potassium cyanide Add chemical drugs Recover the electroforming solutions of precious metals/chemical drugs according to the relevant legislations on electroforming
	3. Professionalism
	Following the safety guidelines and codes of practice of the Dangerous Goods Ordinance and environmental protection ordinances, and other relevant legislations on electroforming, carry out jewellery electroforming safely
Assessment Criteria	The integrated outcome requirements of this unit of competency are:
	 Able to understand thoroughly the safety guidelines and operational guidelines to independently operate electroforming equipment safely so as to complete electroforming processes for precious metals (fine gold/pure silver/karat gold) for products including hollow display items and ornaments; and Understand the relevant legislations on electroforming so as to use the chemical drugs and prepare the electroforming solutions safely.
Remark	