Specification of Competency Standards for the Jewellery Industry Unit of Competency

Functional Area - Production

Title	Master the techniques for cutting/polishing faceted gemstones
Code	108946L2
Range	This unit of competency is applicable to practitioners working in the faceted gemstone cutting/polishing department of jewellery manufacturing organizations. Practitioners should be capable of operating various cutting/polishing tools and equipment under instruction to perform basic precision faceted gemstone cutting/polishing work.
Level	2
Credit	6
Competency	 6 Performance Requirements Know about the operation of basic tools and equipment for cutting/polishing faceted gemstones and the relevant occupational safety Know about the basic optical and physical properties of faceted gemstones Know about the common cuts and facets of faceted gemstones, including: Round brilliant Oval Marquise Pear Square/baguette Trapeze Emerald Scissors Mixed cuts Know about the industrial safety of cutting/polishing faceted gemstones Know about the cuses and prevention of silicosis Pay attention to potential hazards in the work processes and working environment Formulate and list the safety regulations appropriately and clearly Know about the functions, operation and safe operation of the tools/equipment for cutting/polishing faceted gemstones including: Precision diamond cutting machine Girdle polishing machine Cutting lap Polishing wheel Tin/lead alloy wheel Aluminium alloy wheel Resin wheel Tar wheel Emerald hand faceting grinder holder
	 Know about the basic procedures for cutting/polishing faceted gemstones, including: Separating Marking Mould trimming Attaching to the dop stick Prototyping Faceting and polishing

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	 Crown facet blocking Crown facet polishing Reversing the gemstone Removing the dopping compound and cleaning Pavilion facet blocking Pavilion facet polishing Removing the dopping compound and cleaning 2. Master the techniques for cutting/polishing faceted gemstones
	 Master the teeningues for cutting/polishing faceted genistories Master the use of basic equipment for cutting/polishing faceted gemstones Master various polishing methods and the application of polishing materials, including: Polishing agent Diamond powder abrasive Corundum powder Tin oxide powder Chromium oxide powder Iron oxide powder Zinc oxide powder Liquid polishing compound
	3. Professionalism
	 Following the requirements of the organization, code of practice and safety guidelines, cut/polish faceted gemstones by using various relevant tools and equipment properly and safely with a professional attitude
Assessment Criteria	The integrated outcome requirement of this unit of competency is:
	Able to use various gemstone cutting/polishing tools and equipment safely, and master basic techniques for cutting/polishing basic faceted gemstones under instruction.
Remark	This unit of competency is written with reference to the Jewelry Professional Planning Material "Gem Processing Techniques" (珠寶首飾類專業規劃教材《寶石加工工藝學》) by China University of Geosciences Press Co. Ltd.