Specification of Competency Standards for the Jewellery Industry Unit of Competency

Functional Area - Production

| Title | Apply the techniques of faceting/polishing diamonds |
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| Code | 108953L3 |
| Range | This unit of competency is applicable to practitioners working in the diamond faceting/polishing department of jewellery manufacturing organizations. Practitioners should be capable of making judgments and understanding the characteristics of diamonds and rough diamonds. They should also master the operation of diamond faceting/polishing tools and equipment to facet and polish diamond materials after careful analysis and assessment, so as to achieve the highest brilliancy by obtaining the best cutting angles/proportion and perfect facets. |
| Level | 3 |
| Credit | 6 |
| Competency | Performance Requirements 1. Understand the principles of diamond faceting/polishing Understand diamond cuts and respective requirements O Single-facet cuts Point cut Table cut O Round brilliant cut O Fancy cuts O Val cut O Val cut O Val cut O Val cut O Pear cut O Pear cut O Pear cut O Princess cut O Modern diamond cuts O Modern diamond cuts O Modern diamond cuts O Modern cut O Cushino cut O Modern cut O Cushino O Cushino cut O Cushino O |

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Functional Area - Production

| | Designing diamonds with perfect crystals Designing diamonds with distorted crystals Designing diamonds with inclusion Designing diamonds with uneven colours Marking Inspecting rough diamond Marking lines Cutting rough stones Cleaving Sawing Laser cutting Grinding Polishing Master diamond facet trimming/repairing techniques 3. Professionalism Following the requirements of the organization, code of practice and safety guidelines, facet/polish diamonds with the proper and safe use of various relevant tools and equipment with a professional attitude |
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| Assessment Criteria | The integrated outcome requirements of this unit of competency are: |
| | Able to master the characteristics of rough diamonds and apply faceting/polishing techniques to perform perfect faceting and polishing on diamond materials so as to strengthen the internal reflection and refraction of the diamonds to meet the standards of the cut specifications; and Consider the requirements on quality, colour, cleavage and optical properties of the stones when performing diamond faceting/polishing, so as to achieve the highest brilliancy by obtaining the best cutting angles/proportion and perfect facets. |
| Remark | This unit of competency is written with reference to the 21st Century Higher Education Jewelry Professional Planning Material "Gem Processing Techniques" (21世紀高等教育珠寶首飾類專業 規劃教材《寶石加工工藝學》) by China University of Geosciences Press Co. Ltd. |