

**Specification of Competency Standards**  
**for the Jewellery Industry**  
**Unit of Competency**

Functional Area - Production

Title	Master the techniques for faceting/polishing diamonds
Code	108945L2
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 operating various diamond faceting/polishing tools and equipment under instruction to perform precision diamond faceting/polishing work.
Level	2
Credit	6
Competency	<p>Performance Requirements</p> <p>1. Know about the operation of basic tools and equipment for faceting/polishing diamond materials and the relevant occupational safety</p> <ul style="list-style-type: none"> <li>• Know about the basic optical and physical properties of diamonds</li> <li>• Know about the common cuts and facets of diamonds, such as: <ul style="list-style-type: none"> <li>○ Round brilliant</li> <li>○ Marquise</li> <li>○ Pear</li> <li>○ Square/baguette</li> <li>○ Trapeze</li> <li>○ Emerald</li> <li>○ Scissors</li> <li>○ Mixed cuts</li> </ul> </li> <li>• Know about the industrial safety of faceting/polishing diamonds</li> <li>• Know about the protection of the respiratory system</li> <li>• Know about the causes and prevention of silicosis</li> <li>• Pay attention to potential hazards in the work processes and working environment</li> <li>• Formulate and list the safety regulations appropriately and clearly</li> <li>• Know about the functions, operation and safe operation of the tools/equipment for faceting/polishing diamonds, including: <ul style="list-style-type: none"> <li>○ Precision diamond cutting machine</li> <li>○ Diamond girdle polishing machine</li> <li>○ Cutting lap</li> <li>○ Emerald hand faceting grinder holder</li> <li>○ Transfer jig/Dop stick</li> </ul> </li> <li>• Know about the basic procedures for faceting/polishing diamonds, including: <ul style="list-style-type: none"> <li>○ Marking</li> <li>○ Sawing</li> <li>○ Grinding</li> <li>○ Applying the dopping compound</li> <li>○ Lapping</li> <li>○ Sanding</li> <li>○ Polishing</li> </ul> </li> </ul> <p>2. Master the techniques for faceting/polishing diamonds</p> <ul style="list-style-type: none"> <li>• Master the use of basic equipment for faceting/polishing diamonds</li> <li>• Master the application of various grinding and polishing materials</li> <li>• Master the procedures for faceting/polishing diamonds</li> </ul>

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	<p>3. Professionalism</p> <ul style="list-style-type: none"><li>• Following the requirements of the organization, code of practice and safety guidelines, facet/polish diamonds by using various relevant tools and equipment properly and safely with a professional attitude</li></ul>
Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"><li>• Able to operate faceting/polishing tools and equipment safely to perform precision diamond faceting/polishing work.</li></ul>
Remark	<p>This unit of competency is written with reference to Gem Processing Techniques (寶石加工工藝學) by China University of Geosciences Press Co. Ltd.</p>