

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

Functional Area - Production

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| Title               | Apply CAD technology in gemstone faceting/polishing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Code                | 108959L4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Range               | This unit of competency is applicable to practitioners working in the diamond/faceted gemstone cutting/polishing department of jewellery manufacturing organizations. Practitioners should be capable of making judgments and understanding the characteristics of diamonds/gemstones and rough stones. They should also master the use of CAD (computer-aided design) software to conduct faceting and polishing analysis/design for diamond/gemstone materials after careful analysis and assessment, so as to achieve the highest brilliancy by obtaining the cutting angles/proportion and facets required by the organization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Level               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Credit              | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Competency          | <p>Performance Requirements</p> <p>1. Know about CAD support for diamond/gemstone faceting/polishing</p> <ul style="list-style-type: none"> <li>• Know about diamond/gemstone faceting/polishing <ul style="list-style-type: none"> <li>○ Cuts of diamonds/gemstones and their specifications</li> <li>○ The angles and proportion of facets</li> <li>○ The characteristics of rough stones for designing their cuts</li> </ul> </li> <li>• Know about CAD software and equipment <ul style="list-style-type: none"> <li>○ GemCad</li> <li>○ Rough stone colour grading instrument</li> <li>○ Diamond/Gemstone proportion determination system</li> <li>○ Girdle identifier reading instrument</li> <li>○ Hearts and Arrows magnifier</li> </ul> </li> </ul> <p>2. Apply CAD in cutting and polishing faceted gemstones</p> <ul style="list-style-type: none"> <li>• Master the knowledge and techniques for faceting/polishing diamonds</li> <li>• Master the use of CAD software and equipment for faceting and polishing diamonds and faceted gemstones</li> <li>• Master diamond/gemstone facet trimming/repairing techniques</li> </ul> <p>3. Professionalism</p> <ul style="list-style-type: none"> <li>• Ensure that the content, data and information provided are accurate</li> <li>• Take into account the overall interests of the clients and business partners of the organization when making CAD support for cutting and polishing diamonds/faceted gemstones</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 understand the characteristics of diamonds/gemstones and rough stones, and use CAD software to conduct faceting and polishing analysis/design for diamond/gemstone materials after careful analysis and assessment, so as to achieve the highest brilliancy by obtaining the cutting angles/proportion and facets required by the organization.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Remark              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |