

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

Functional Area - Production

Title	Master the techniques for cutting/polishing jade (Fei Cui/nephrite)
Code	108944L2
Range	This unit of competency is applicable to practitioners working in the jade (Fei Cui/nephrite) cutting/polishing department of jewellery manufacturing organizations. Practitioners should be capable of mastering the operation of various relevant tools and equipment, and applying basic techniques for cutting/polishing jade (Fei Cui/nephrite) under instruction.
Level	2
Credit	6
Competency	<p>Performance Requirements</p> <p>1. Know about the operation of basic tools/equipment for cutting/polishing jade and the relevant occupational safety</p> <ul style="list-style-type: none"> <li>• Know about the basic physical properties of jade (Fei Cui/nephrite)</li> <li>• Know about the basic cuts of jade (Fei Cui/nephrite), including: <ul style="list-style-type: none"> <li>○ Cabochon/flat: round, heart-shaped, oval, teardrop-shaped, equilateral triangle/trilliant, olive-shaped, square/baguette, etc.</li> <li>○ Bead: round bead, abacus bead, oval bead, square/baguette bead, barrel-shaped bead, tube bead, triangular prism bead, etc.</li> <li>○ Ring: convex spring ring, saddle ring, thumb ring, etc.</li> <li>○ Bangle: cylindrical bangle, convex spring bangle, etc.</li> <li>○ Irregular shapes</li> </ul> </li> <li>• Know about the industrial safety of cutting/polishing jade <ul style="list-style-type: none"> <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> </ul> </li> <li>• Know about the functions and safe operation of the tools/equipment for cutting/polishing jade, including: <ul style="list-style-type: none"> <li>○ Jade cutting machine (slices)</li> <li>○ Small cutting machine (granules)</li> <li>○ Grinder</li> <li>○ Surface grinder</li> <li>○ Bangle making machine</li> <li>○ Jade bangle grinding machine</li> <li>○ Jade bangle inside grinding machine</li> <li>○ Sander</li> <li>○ Vibratory polishing machine/Tumbler</li> <li>○ Water mill bead setting machine</li> <li>○ Bead polishing machine</li> <li>○ Bead chain polishing machine</li> <li>○ Ultrasonic drilling machine</li> </ul> </li> <li>• Know about the procedures for cutting/polishing jade, including: <ul style="list-style-type: none"> <li>○ Sawing</li> <li>○ Granulating</li> <li>○ Grinding</li> <li>○ Lapping</li> <li>○ Polishing</li> <li>○ Drilling</li> </ul> </li> </ul>

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	<p>2. Master the basic techniques for cutting/polishing jade</p> <ul style="list-style-type: none"> <li>• Master the use of basic equipment for cutting/polishing jade</li> <li>• Master the application of various grinding and polishing materials <ul style="list-style-type: none"> <li>○ Sanding</li> <li>○ Polishing</li> <li>○ Tumbling</li> </ul> </li> <li>• Master the procedures for cutting/polishing jade</li> </ul> <p>3. Professionalism</p> <ul style="list-style-type: none"> <li>• Following the requirements of the organization, code of practice and safety guidelines, cut/polish jade 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 use various jade cutting/polishing tools and equipment safely, and master basic techniques for cutting/polishing basic jade jewellery series under instruction.</li> </ul>
Remark	<p>This unit of competency is written with reference to Practical Gem Processing Techniques (實用寶石加工技法) by Chemical Industry Press Co. Ltd.</p>