

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

Functional Area - Research and Product Development

Title	Assess the application of innovative jewellery processing techniques
Code	108910L5
Range	This unit of competency is applicable to management responsible for research and product development in the jewellery industry. Practitioners should be capable of making analysis and judgment. They should be able to supervise subordinate staff to conduct assessments on the application of innovative jewellery processing techniques, so as to enhance the effectiveness of jewellery processing.
Level	5
Credit	3
Competency	<p>Performance Requirements</p> <p>1. Know about the development of processing techniques</p> <ul style="list-style-type: none"> <li>• Master the needs, latest development and future trends of relevant jewellery processing techniques, such as: <ul style="list-style-type: none"> <li>○ Materials science</li> <li>○ Materials processing</li> <li>○ Mechanical tools</li> <li>○ Robot arms and automation</li> <li>○ Micromachining and nanotechnology</li> <li>○ Precision machining</li> <li>○ Information technology</li> <li>○ Computer-aided engineering analysis</li> </ul> </li> </ul> <p>2. Assess and introduce processing techniques</p> <ul style="list-style-type: none"> <li>• Assess processing techniques, such as: <ul style="list-style-type: none"> <li>○ Collect and analyze information and conduct tests</li> <li>○ Assess the effectiveness of the innovative jewellery processing techniques, and its contribution to product research and development</li> <li>○ Assess the possibility of application in the organization</li> <li>○ Compile relevant assessment reports and make suggestions</li> </ul> </li> <li>• Introduce innovative jewellery processing techniques applicable to the organization according to the assessment results and company policies, so as to enhance the effectiveness of jewellery processing</li> </ul> <p>3. Professionalism</p> <ul style="list-style-type: none"> <li>• Giving primary consideration to the interests of the organization, conduct fair assessments in an impartial manner on the processing techniques provided by different suppliers</li> <li>• Respect intellectual property and avoid plagiarism, preventing individuals and the organization from falling into the trap of infringement of intellectual property rights when introducing innovative processing techniques</li> </ul>
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>• Able to assess the effectiveness of innovative jewellery processing techniques, compile relevant assessment reports and proposals, and introduce techniques applicable to the company in accordance with the company policies; and</li> <li>• Conduct fair assessments on the processing techniques provided by different suppliers to enhance the effectiveness of jewellery processing.</li> </ul>

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Remark	
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