

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

1. Title	Master innovative technology of jewellery to design creative jewellery	
2. Code	JLZZDE501A	
3. Range	This unit of competency is applicable in jewellery companies or worksites. Practitioners should be capable to understand thoroughly the relation between innovative technology and design, so as to master innovative technology of jewellery for the research and development of creative jewellery design.	
4. Level	5	
5. Credit	9	
6. Competency	<p>6.1 Know about the relation between innovative technology and design</p>	<p align="center"><u>Performance Requirements</u></p> <ul style="list-style-type: none"> <li>◆ Capable to understand thoroughly various kinds of innovative technologies applied in jewellery design, such as: <ul style="list-style-type: none"> <li>• CAD – Computer-aided Design and Computer-aided Drawing</li> <li>• CNC - Computer Numerical Control</li> <li>• RP- Rapid Prototyping Machine</li> <li>• LC - Laser Cutting and LW- Laser Welding, etc.</li> </ul> </li> <li>◆ Master the relation between innovative technology and design, and make use of innovative technology to improve or facilitate jewellery design</li> <li>◆ Know about the operation of various kinds of innovative technologies <ul style="list-style-type: none"> <li>• Know how to produce 3-D computerized drawings</li> <li>• Use computerized data to operate automatic slitting machine to cut the required materials</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• Master the method of sequencing and the operation technique of prototype drawings to make rapid prototypes</li> <li>• Master the techniques of laser cutting and laser welding and capable to understand the characteristics and reaction of various kinds of materials that may be connected or cut out</li> <li>• Master the deployment, coordination and selection of CAD, CNC, RP, CL and LW techniques</li> </ul> <p>6.2 Apply innovative technology in creative jewellery design</p> <ul style="list-style-type: none"> <li>◆ Capable to understand thoroughly the design flow, and know about the important points to note when developing new products</li> <li>◆ Capable to apply various kinds of innovative technologies of jewellery in designing prototypes and models in production process; also capable to develop creative jewellery design to enhance the quality and market value of the design products or jewellery products</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to apply various kinds of innovative technologies in making prototypes and models as well as during production process; and capable to develop creative jewellery design to enhance the quality and market value of the design products or jewellery products.</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person concerned already possesses basic knowledge about computer operation and jewellery design.</p>