

Specification of Competency Standards for the Jewellery Industry
Unit of Competency

1. Title	Apply technological innovations of jewellery in jewellery design																		
2. Code	JLZZDE410A																		
3. Range	This unit of competency is applicable in jewellery companies or worksites. Practitioners should be capable to use technological innovations of jewellery to design jewellery and make jewellery prototypes and models.																		
4. Level	4																		
5. Credit	9																		
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <table border="0"> <tr> <td style="vertical-align: top;">6.1</td> <td style="vertical-align: top;">Know about the technological innovations that can facilitate jewellery design</td> <td style="vertical-align: top;">◆</td> <td style="vertical-align: top;">Know about various kinds of new technologies applied in jewellery design, such as: <ul style="list-style-type: none"> • The operation of 3-D Computer-Aided Design and Computer-Aided Drawing (CAD) • Computer Numerical Control (CNC) • The techniques of Rapid Prototyping Machine (RP) • Laser Cutting (LC) and Laser Welding (LW), etc. </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Apply technological innovations in design workflow</td> <td style="vertical-align: top;">◆</td> <td style="vertical-align: top;">Capable to master the operation method of various kinds of technological innovations</td> </tr> <tr> <td></td> <td></td> <td style="vertical-align: top;">◆</td> <td style="vertical-align: top;">Capable to use various kinds of softwares to design the drawings of jewellery, and can use various kinds of equipments to make models</td> </tr> <tr> <td></td> <td></td> <td style="vertical-align: top;">◆</td> <td style="vertical-align: top;">Capable to make use of high technology to speed up jewellery manufacturing process, so as to enhance product quality and market value</td> </tr> </table>			6.1	Know about the technological innovations that can facilitate jewellery design	◆	Know about various kinds of new technologies applied in jewellery design, such as: <ul style="list-style-type: none"> • The operation of 3-D Computer-Aided Design and Computer-Aided Drawing (CAD) • Computer Numerical Control (CNC) • The techniques of Rapid Prototyping Machine (RP) • Laser Cutting (LC) and Laser Welding (LW), etc. 	6.2	Apply technological innovations in design workflow	◆	Capable to master the operation method of various kinds of technological innovations			◆	Capable to use various kinds of softwares to design the drawings of jewellery, and can use various kinds of equipments to make models			◆	Capable to make use of high technology to speed up jewellery manufacturing process, so as to enhance product quality and market value
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to use 3D software in the jewellery design workflow; and (ii) Capable to use technological innovations of jewellery to make jewellery prototypes and models, so as to speed up manufacturing process and enhance product quality and market value.
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.</p>