

Specification of Competency Standards for the Jewellery Industry
Unit of Competency

1. Title	Apply CAD softwares in relatively complicated jewellery design		
2. Code	JLZZDE404A		
3. Range	This unit of competency is applicable in jewellery companies or worksites. Practitioners should be capable to apply computer-aided design software and make relatively complicated jewellery, such as: complicated necklace design and rings, etc.		
4. Level	4		
5. Credit	4		
6. Competency		<u>Performance Requirements</u>	
	6.1	Know about computer-aided design software	<ul style="list-style-type: none"> ◆ Master the concept of applying computer-aided design software to design relatively complicated jewellery drawings ◆ Know about the differences between two-dimensional and three-dimensional CAD drawings and their conversion factors ◆ Master different interfaces and the conversion of files, such as: IGES and STL, etc.
	6.2	Employ computer-aided design technology	<ul style="list-style-type: none"> ◆ Employ computer-aided design technology to design relatively complicated jewellery patterns and produce demonstration drawings. Relatively complicated jewellery such as: complicated necklace design and rings, etc. ◆ Employ the conversion between two-dimensional and three-dimensional designs ◆ Use different interfaces and file processing to output and convert files for different numerical control machining or rapid prototype making

<p>7. Assessment Criteria</p>	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to correctly apply computer-aided software to design relatively complicated jewellery, such as: make jewellery set, analyze the structure of the design and production possibility; and (ii) Capable to use different interfaces, such as: IGES to convert between two-dimensional and three-dimensional design, as well as master the conversion and output of different files to match with various kinds of numerical control machining and rapid prototype making.
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person concerned already possesses the ability to use computer-aided design software to design relatively simple jewellery drawings.</p>