

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

1. Title	Master jewellery electroplating techniques	
2. Code	JLZZPD210A	
3. Range	This unit of competency is applicable in jewellery electroplating worksites. Practitioners should be capable to operate electroplating equipments and prepare electroplating solution in accordance with the organization's code of practice and safety regulations under instruction, and to apply an electroplated coating onto the surface of jewellery after polishing.	
4. Level	2	
5. Credit	6	
6. Competency		<p align="center"><u>Performance Requirements</u></p> <p>6.1 Know about electroplating operation</p> <ul style="list-style-type: none"> <li>◆ Know about the relevant electroplating legislation <ul style="list-style-type: none"> <li>• Drainage and environmental protection legislation</li> <li>• Disposal of chemical wastes legislation</li> </ul> </li> <li>◆ Know about the safety operation of chemical drugs</li> <li>◆ Know about the refining method for precious metal electroplating solution</li> <li>◆ Know about the solution to electroplating defects</li> </ul> <p>6.2 Jewellery electroplating</p> <ul style="list-style-type: none"> <li>◆ The treatment of jewellery prior to electroplating <ul style="list-style-type: none"> <li>• Bombing and tearing</li> <li>• Steam rinsing</li> <li>• Degreasing</li> <li>• Use of Magnetic Tumbling</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>◆ Install electroplating equipments <ul style="list-style-type: none"> <li>• Operate rectifier</li> <li>• Install electrode</li> <li>• Control the temperature of the medicinal liquid</li> <li>• Lap top accessories</li> <li>• Master dip plating time</li> <li>• Electroplate yellow and white colour separately</li> </ul> </li> <li>◆ Prepare electroplating solution <ul style="list-style-type: none"> <li>• Replenish gold potassium cyanide</li> <li>• Add chemical drugs</li> </ul> </li> </ul> <p>6.3 Implement professional treatment of electroplated jewellery</p> <ul style="list-style-type: none"> <li>◆ Perform jewellery electroplating duty in a safely manner according to the legislation relevant to the electroplating industry and safety guidelines</li> </ul>
7.Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to control the thickness and colour of the electroplated coating in accordance with the organization’s code of practice under instruction; and</p> <p>(ii) Capable to understand the legislations relevant to the electroplating industry and to operate electroplating equipments and the safety usage of medicines.</p>
8.Remarks	<p>The credit value of this unit of competency is set on the presumption that the person concerned already possesses general knowledge about jewellery manufacturing.</p>