

## Specification of Competency Standards for the Jewellery Industry

### Unit of Competency

1. Title	Carve wax model for jewellery articles/ornaments							
2. Code	JLZZPD301A							
3. Range	This unit of competency is applicable in workplaces relevant to the wax model carving for jewellery articles/ornaments. Practitioners should be capable to master the relationship between wax model and electroforming manufacturing. They should also be capable to analyze the information of design sketch and customers' requirements independently, so as to effectively perform wax model carving for carved jewellery articles/ornaments, and to produce wax moulds used for manufacturing electroformed precious metals articles/ornaments.							
4. Level	3							
5. Credit	9							
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; vertical-align: top;">6.1</td> <td style="width: 40%; vertical-align: top;">Understand the principle of wax model carving for electroformed and carved jewellery articles/ornaments</td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Know about the processing procedure and requirements of electroforming technique</li> <li>◆ Know about the information of the design sketch and customers' requirements</li> <li>◆ Master the technique of constructing 3-D structural design from graphic layout design</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Wax model carving for carved jewellery articles/ornaments</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Master the technique of wax model carving</li> <li>◆ Control the size and weight of products</li> <li>◆ Master the technique of duplicating wax mould                             <ul style="list-style-type: none"> <li>• The treatment of condensed silicon plastic</li> <li>• The operation of vacuum wax injection</li> <li>• Wax mould trimming and hall mark treatment</li> </ul> </li> </ul> </td> </tr> </table>		6.1	Understand the principle of wax model carving for electroformed and carved jewellery articles/ornaments	<ul style="list-style-type: none"> <li>◆ Know about the processing procedure and requirements of electroforming technique</li> <li>◆ Know about the information of the design sketch and customers' requirements</li> <li>◆ Master the technique of constructing 3-D structural design from graphic layout design</li> </ul>	6.2	Wax model carving for carved jewellery articles/ornaments	<ul style="list-style-type: none"> <li>◆ Master the technique of wax model carving</li> <li>◆ Control the size and weight of products</li> <li>◆ Master the technique of duplicating wax mould                             <ul style="list-style-type: none"> <li>• The treatment of condensed silicon plastic</li> <li>• The operation of vacuum wax injection</li> <li>• Wax mould trimming and hall mark treatment</li> </ul> </li> </ul>
6.1	Understand the principle of wax model carving for electroformed and carved jewellery articles/ornaments	<ul style="list-style-type: none"> <li>◆ Know about the processing procedure and requirements of electroforming technique</li> <li>◆ Know about the information of the design sketch and customers' requirements</li> <li>◆ Master the technique of constructing 3-D structural design from graphic layout design</li> </ul>						
6.2	Wax model carving for carved jewellery articles/ornaments	<ul style="list-style-type: none"> <li>◆ Master the technique of wax model carving</li> <li>◆ Control the size and weight of products</li> <li>◆ Master the technique of duplicating wax mould                             <ul style="list-style-type: none"> <li>• The treatment of condensed silicon plastic</li> <li>• The operation of vacuum wax injection</li> <li>• Wax mould trimming and hall mark treatment</li> </ul> </li> </ul>						

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>(i) Capable to analyze the information of design sketch and customers' requirements independently and employ proficient techniques to construct the 3-D design of carved jewellery articles/ornaments for wax model carving, including: portraits, animals, cartoon figurines, Chinese Zodiac and mascots, etc.; and</li> <li>(ii) Capable to take into account the manufacturing quality and result of electroforming processing procedure.</li> </ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person concerned already possesses the knowledge of wax prototype carving for jewellery.</p>