

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

Functional Area - Quality Management

Title	Apply quality inspection standards and use test equipment for jewellery/gemstones and parts
Code	108981L2
Range	This unit of competency is applicable to practitioners working in jewellery factories/worksites or responsible for duties related to quality management of jewellery products. Practitioners should be capable of understanding the workflow of jewellery manufacturing and the quality inspection standards, and using test equipment properly to conduct quality inspection in accordance with the code of practice under instruction.
Level	2
Credit	6
Competency	<p>Performance Requirements</p> <p>1. Understand the requirements of quality management of jewellery products</p> <ul style="list-style-type: none"> <li>• Know about each procedure in the workflow of jewellery manufacturing</li> <li>• Know about the requirements, monitoring points and quality index in each procedure</li> <li>• Know about the requirements of quality inspection standards for gold jewellery products, such as: <ul style="list-style-type: none"> <li>○ Weight</li> <li>○ Fineness</li> <li>○ Shiny/Damaged surface</li> <li>○ Hall mark</li> </ul> </li> <li>• Know about the requirements of quality inspection standards for jewellery products, such as: <ul style="list-style-type: none"> <li>○ Fineness of metals</li> <li>○ Shiny/Damaged metal surface</li> <li>○ Colour/Lustre/Damage of gemstones</li> <li>○ Loose gemstones</li> <li>○ Colour requirements of electroplating</li> </ul> </li> <li>• Know about the basic functions and operating principles of complete watches and parts</li> <li>• Know about the requirements of quality inspection for jewellery parts, such as: <ul style="list-style-type: none"> <li>○ Weight</li> <li>○ Fineness</li> <li>○ Tightness</li> <li>○ Flexibility</li> <li>○ Durability</li> <li>○ Functionality</li> </ul> </li> </ul> <p>2. Use test equipment to check the quality of jewellery/gemstones and parts</p> <ul style="list-style-type: none"> <li>• Correct use of commonly used metal identification equipment, such as: <ul style="list-style-type: none"> <li>○ Standard electronic scale</li> <li>○ Gold testing stone</li> <li>○ X-ray gold tester</li> </ul> </li> <li>• Correct use of commonly used gemstone identification equipment, such as: <ul style="list-style-type: none"> <li>○ 10X lens</li> <li>○ Dichroscope</li> <li>○ Chelsea colour filters</li> <li>○ Polariscope</li> <li>○ Refractometer</li> <li>○ Spectroscope</li> <li>○ Ultraviolet long wave and short wave</li> </ul> </li> </ul>

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	<ul style="list-style-type: none"> <li>○ Infrared spectrometer</li> <li>• Determine the existing verification/certified marks of the test equipment for jewellery/gemstones and parts</li> <li>• Perform regular calibration, repair and maintenance of test instruments and equipment</li> <li>• Conduct quality inspection under instruction</li> </ul> <p>3. Professionalism</p> <ul style="list-style-type: none"> <li>• Keep up to date with the new knowledge and requirements of quality inspection standards, and learn to use the latest product testing equipment constantly</li> <li>• Ensure product quality meets customer requirements and international standards</li> </ul>
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>• Able to understand thoroughly the workflow of jewellery manufacturing and the requirements of quality inspection; and</li> <li>• Use test equipment properly and conduct quality inspection for jewellery products/parts under instruction.</li> </ul>
Remark	