

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

Functional Area - Testing and Certification

Title	Apply basic gemstone identification tools/equipment
Code	109005L2
Range	This unit of competency is applicable to practitioners who work in gemmological laboratories and those with related duties in the jewellery industry. This unit of competency is applied in the routine work environments related to gemstone identification. Practitioners should be capable of understanding the basic gemstone identification tools/equipment, and their operating principles, performance and functions, so as to correctly apply the tools/equipment to carry out preliminary tests and related work under instruction.
Level	2
Credit	3
Competency	<p>Performance Requirements</p> <p>1. Know about basic gemstone identification tools/equipment</p> <ul style="list-style-type: none"> <li>• Know about basic gemstone identification tools/equipment, such as: <ul style="list-style-type: none"> <li>○ Fluorescent lamp</li> <li>○ 10X lens</li> <li>○ Pen flashlight</li> <li>○ Measuring callipers/steel ruler</li> <li>○ Handheld spectroscope</li> <li>○ Gemstone cloth</li> <li>○ Gemstone forceps</li> <li>○ Electronic balance</li> </ul> </li> <li>• Know about the operating principles, performance, functions and advantages/disadvantages of basic gemstone identification equipment</li> </ul> <p>2. Apply basic gemstone testing/identification equipment to carry out preliminary tests</p> <ul style="list-style-type: none"> <li>• Determine the existing calibration/certified mark of the gemstone testing equipment</li> <li>• Ascertain the basic principles, performance, functions, and advantages/disadvantages of the gemstone testing equipment</li> <li>• Apply the basic gemstone testing equipment properly to carry out preliminary tests</li> </ul> <p>3. Professionalism</p> <ul style="list-style-type: none"> <li>• Able to follow the practitioners' company requirements, code of practice and safety guidelines to apply the basic gemstone identification tools/equipment to perform preliminary tests and related duties effectively and precisely in a professional attitude.</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 clearly identify various basic gemstone identification equipment, and their operating principles, performance and functions; and</li> <li>• Correctly apply the testing equipment to carry out preliminary tests and related work under guidance.</li> </ul>
Remark	<p>This unit of competency is written with reference to the following materials. Readers can study the relevant information according to their needs:-</p> <ul style="list-style-type: none"> <li>• Information from courses of The Gemmological Association of Great Britain (Gem-A), courses of The Gemological Institute of America (GIA), courses of The Swiss Gemmological Institute and courses of the International Gemological Institute, and information from the China National Gemstone Testing Center, etc.</li> </ul>