Specification of Competency Standards for the Jewellery Industry Unit of Competency

Functional Area - Testing and Certification

Title	Identify and analyze specific gemstones
Code	109015L5
Range	This unit of competency is applicable to gemmologists working in gemmological laboratories in the jewellery industry. Practitioners should be capable of conducting analysis, assessment and integration of data. They should be able to analyze the characteristics of specific gemstones and understand their identification methods and use precision testing equipment to identify different kinds of gemstones effectively, independently and properly.
Level	5
Credit	9
Competency	Performance Requirements 1. Analyze the characteristics of specific gemstones Inorganic gemstones Artificial gemstones Imitation gem materials and composite stones, such as: Imitation gem materials (e.g. glass and plastic) Imitation gem materials (e.g. pressed amber) Imitation gemstones Reconstructed stones (e.g. opal) Treated gemstone materials Colouring, foiling and coating Dyeing Impregnation and filling Laser treatment Heat treatment and diffusion Radiation and heat treatment High pressure and high temperature treatment
	 2. Identify specific gemstones Master the methods for analyzing the characteristics of specific gemstones and the identification methods Master the functions of basic gemstone testing equipment Use precision gemstone testing equipment properly to conduct gemstone tests 3. Professionalism Following the requirements of the organization, code of practice and safety guidelines, use testing equipment to conduct tests on specific gemstones and effectively in a professional attitude Learn to use the latest gemstone identification/testing equipment constantly
Remark	 Able to analyze the characteristics of specific gemstones and understand their basic identification methods; and Use identification equipment and tools properly to obtain data and information. This unit of competency is written with reference to the following materials. Readers can study the relevant information according to their needs:-

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