

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

1. Title	Identify common gemstones and their qualities
2. Code	JLZZSA305A
3. Range	This unit of competency is applicable in workplaces such as jewellery outlets, design studios and jewellery worksites. Practitioners should be capable to identify the categories of common gemstones used in jewellery manufacturing and understand the identification methods. They should also be capable to use identification equipments and tools correctly to retrieve data and information under instruction, and apply such knowledge in duties such as production, design, quality management, gemstone identification, logistics and procurement of jewellery.
4. Level	3
5. Credit	12
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand the categories and characteristics of gemstones</p> <ul style="list-style-type: none"> <li>◆ Understand the categories and characteristics of gemstones, such as: <ul style="list-style-type: none"> <li>• The necessary compositions of gemstones</li> <li>• The source and formation of gemstones</li> <li>• The categories of gemstones, such as : natural gemstones, synthetic gemstones, treated gemstones, doublets and their similarities</li> <li>• The concept of genuine and fake gemstones</li> </ul> </li> <li>◆ Understand the varieties, features and qualities of common gemstones in jewellery manufacturing, such as : <ul style="list-style-type: none"> <li>• Diamonds</li> <li>• Corundum (rubies, sapphires)</li> <li>• Beryl (emeralds, aquamarines)</li> <li>• Topazes</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• Garnets</li> <li>• Quartz (crystals, amethyst, citrine, agate, etc.)</li> <li>• Jadeite/nephrite</li> <li>• Pearls</li> <li>• Corals</li> </ul> <p>6.2 Preliminary identification of gemstones</p> <ul style="list-style-type: none"> <li>◆ Know about the preliminary gemstone identification methods, such as : <ul style="list-style-type: none"> <li>• By naked eyes <ul style="list-style-type: none"> <li>▸ Colour</li> <li>▸ Luster</li> <li>▸ Transparency</li> </ul> </li> <li>• By equipments <ul style="list-style-type: none"> <li>▸ 10X lens</li> <li>▸ Electronic caliper</li> <li>▸ Dichroscope</li> <li>▸ Chelsea Colour Filter</li> <li>▸ Polariscope</li> <li>▸ Refractometer</li> </ul> </li> </ul> </li> <li>◆ According to different identification methods, capable to use the identification equipment correctly to retrieve data and information</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to identify the categories of common gemstones in jewellery manufacturing and understand the basic identification methods; and</p> <p>(ii) Capable to make preliminary identification of genuine and fake gemstones by naked eyes and equipment</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses general knowledge of gemstones.</p>