Specification of Competency Standards for the Jewellery Industry Unit of Competency

Functional Area - Sales

Title	Identify basic jewellery manufacturing materials
Code	108826L2
Range	This unit of competency is applicable to practitioners whose job duties include the sales, marketing, operation, design, production, product development/technological research, quality management and procurement of jewellery. Practitioners should know well about the types of commonly used jewellery manufacturing materials and their characteristics. They should also be capable of applying these materials in relevant job duties under supervision.
Level	2
Credit	6
Competency	Performance Requirements 1. Know about the characteristics of jewellery manufacturing materials • Know about the characteristics of common metal and non-metal materials
	Know about the characteristics of common metal and non-metal materials General characteristics of precious/non-precious metal materials Specific gravity (relative density) Electrical conductivity Hear resistance Insulation Hardness Density Tensile strength Ductility (forgeability) Malleability Fusibility Brittleness Elasticity General characteristics of non-metal materials Weight Degree of softness/hardness Tenacity Electrical conductivity Combustibility Identification with a solution Touchstone method X-ray fluorescence spectrometry Fire assay Inductively coupled plasma spectrometry Know about jewellery manufacturing materials (metal and non-metal materials) Know about the commonly used metal materials in different kinds of jewellery and their areas of application, such as: Coloured metals Precious metals, including: Gold, platinum and silver Basic metals, including: Copper, nickel, aluminium, lead, tin and zinc

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	 Titanium, platinum, palladium and rhodium Black metals Iron, iron alloy and steel Know about the commonly used non-metal materials in different kinds of jewellery and their areas of application, such as: Natural organic materials, including: timber, bones, feathers, hair and stings Plastic and rubber products, including: acrylic, polypropylene, nylon, resin, organic silicone resin, neoprene rubber, polyurethane and thermoplastic polymers Other media, including: cement, slate, gypsum, pottery, porcelain, glass, paper, textiles, electronic components, etc. 3. Professionalism
	 Capable of manufacturing jewellery using jewellery manufacturing materials and storing jewellery manufacturing materials safely and effectively with a professional attitude and in accordance with the guidelines of the organization
Assessment Criteria	The integrated outcome requirement of this unit of competency is: Able to know about the commonly used materials in jewellery manufacturing and apply these materials in job duties related to the sales, marketing, operation, design, production, products, quality management and procurement of jewellery under supervision.
Remark	