



Australian Government

Assessment Requirements for MEM19026

Investigate quality and application of jewellery materials

Release: 1

Assessment Requirements for MEM19026 Investigate quality and application of jewellery materials

Modification History

Release 1. Supersedes and is equivalent to MEM19026A Investigate quality and application of jewellery materials.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- analysing and applying industry standards and information on material quality and grades
- identifying on at least two occasions qualities, features, limitations and working characteristics of different metals, gemstones and materials used in jewellery object construction
- selecting materials to meet the needs of work outcomes on at least two occasions
- measuring and handling gemstones
- conducting tests to assess purity of metal
- conducting research and accessing information from information sources and specialist expertise.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- information sources and specialist expertise available to confirm uses and quality of materials
- nomenclature used in describing and identifying jewellery materials
- source or origin of materials and processes involved in extraction or development, and known environmental impacts
- recovery and recycling opportunities for materials used in jewellery
- risk factors in using materials for various jewellery applications
- metals used in jewellery:
 - industry standards for purity of precious metals and the marking system used to identify grade of quality
 - qualities, features, limitations and working characteristics

- tests used to assess purity
- process of making metal alloys, melting points of various metals and alloys and impact of mix on final properties
- gemstones:
 - industry standards for quality
 - qualities, features, limitations and working characteristics
 - range of facet cuts used on gems and their applications
 - costing implications of using various gemstones
 - techniques used to enhance lower quality gemstones
 - requirements for handling and cleaning gemstones
- uses and characteristics of less common materials used in jewellery.
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Assessment Conditions

- Assessors must:
 - have vocational competency in investigating quality and application of jewellery materials at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* or its replacement and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires.
- Where possible, assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
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Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>