



Australian Government

Assessment Requirements for MEM19004 Handle and examine gemstone materials

Release: 1

Assessment Requirements for MEM19004 Handle and examine gemstone materials

Modification History

Release 1. Supersedes and is equivalent to MEM19004B Handle and examine gemstone 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 on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- selecting relevant tools and equipment to handle and examine gem materials
- setting up and safely operating equipment, including preparing, pre-setting, balancing, calibrating and levelling of equipment, for examination of gem materials
- undertaking numerical operations and calculations associated with handling and examining gem stones
- identifying relevant physical and optical properties of gemstones
- recording results and comparing results with known control items, charts, lists, graphs, diagrams and resource materials
- reading valuation documents, making comparisons and verifying outcomes
- selecting and applying handling measures and precautions in relation to gem materials, work processes, tools and equipment
- investigating and reporting examination results, including assessing need for further examination, cross referencing other records and cross referencing valuation documents.

Knowledge Evidence

Essential knowledge required to effectively handle and examine gemstone materials outlined in elements and performance criteria of this unit includes:

- safe work practices and procedures and use of personal protective equipment (PPE)
- examination methods for gem materials in relation to the properties and features that may affect specific materials during jewellery manufacture, repair or alteration
- equipment required for examination and the function of each
- limitations of the selected equipment and methods
- SOPs for selected equipment
- definitions of processes and features
- physical and optical properties and qualities of relevant gemstones
- principles of gemmology
- gemstone and diamond nomenclature

- process for verifying results
- handling measures and precautions for specific gem materials during jewellery manufacture, repair or alteration
- evidence used in support of conclusions.

Assessment Conditions

- Assessors must:
 - have vocational competency in handling and examining gemstone 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

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>