



Australian Government

Assessment Requirements for MEM19028 Select materials and new technologies for jewellery or 3D object design applications

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM19028A Select materials and new technologies for jewellery and 3D object design applications.

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
- identifying benefits and limitations of materials and manufacturing processes in achieving outcomes in jewellery or 3D object design applications
- identifying features and properties of metals and metal alloys in considering the design requirements
- selecting materials for jewellery or 3D object applications and identifying alternative materials on at least two occasions
- selecting manufacturing technologies and processes for jewellery and 3D object applications on at least two occasions
- arranging the production of working and reference drawings in accordance with SOPs.

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
- properties and features and typical applications of precious metals and alloys, base and refractory metals
- design considerations when selecting materials for jewellery
- types of alternative materials
- advantages and limitations of particular materials
- properties and features and typical applications of alternative materials
- manufacturing technologies and processes suitable to jewellery or 3D object production and their advantages and limitations
- appropriate people with whom to discuss design concepts

- environmental considerations when producing jewellery or 3D objects
- drawing presentation and production techniques.
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Assessment Conditions

- Assessors must:
 - have vocational competency in selecting materials and new technologies for jewellery or 3D object design applications 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>