



Australian Government

Assessment Requirements for MEM19045

Set gems in channel style settings

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM19045A Set gems in channel style settings.

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 materials used in channel settings
- applying techniques for handling gems safely and minimising stress during setting processes
- producing a tapered channel setting reflective of industry standard on at least two occasions using gem setting tools and equipment
- producing a parallel channel setting reflective of industry standard on at least two occasions using gem setting tools and equipment
- completing workplace documentation in accordance with procedures.

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)
- materials used in channel settings and their essential characteristics
- types of gemstones
- gem setting tools and equipment
- setting and materials terminology
- requirements for channel setting
- calculation of the required material size
- jewellery item setting methods that do not inflict damage to gems or settings
- depth and spacing at which to cut the bearing on the inside of the channel wall
- how to seat the gem level and straight in the channel that has been prepared
- method of forming the channel wall over the gem to secure it
- industry standard for finishing the top of the channel
- gem features and handling procedures

- maintenance requirements of tools
- setting techniques, processes and procedures
- setting of gems with varying Mohs hardness or naturally included materials
- suitability of metal for carving and setting
- essential characteristics of various styles of channel settings
- various securing techniques for jewellery items to be set.
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Assessment Conditions

- Assessors must:
 - have vocational competency in setting gems in channel style settings 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>