



Australian Government

Assessment Requirements for MEM19047

Set gems in claw and bezel style settings

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM19047A Set gems in claw and bezel 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 metals and gems
- applying techniques for handling gems safely and minimising stress during setting processes
- producing claw and bezel settings according to industry standards on at least two occasions using setting tools and equipment
- calculating required material size
- securing the jewellery item to be set without inflicting damage
- selecting the appropriate height and depth at which to cut the bearing on the wire of the claw setting on at least two occasions
- seating the gem level and straight in the claw setting
- securing the gem by pushing the claw wire over the gem
- finishing the top of the claw to the desired shape on at least two occasions
- selecting the appropriate height and depth at which to cut the bearing on the inside of the bezel wall on at least two occasions
- seating the gem level and straight in the bezel setting
- securing the gem by pushing the bezel wall over the gem
- finishing the top of the bezel to the desired shape on at least two occasions
- 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)
- setting types and terminology

- bezel characteristics, including full and part bezels, along with bezel construction types
- advantages and disadvantages of 2,4,6,8, and 12 wire settings and 'V' wire claw settings
- gem materials, features and handling procedures
- setting tools and equipment
- maintenance requirements of tools
- setting techniques, processes and procedures
- working properties of materials
- types of gems and their key characteristics
- range of facet cuts used on gems
- qualities, features, limitations and working characteristics of different metals used in jewellery
- suitability of metal for carving and setting
- essential characteristics of wire claw settings
- essential characteristics of different styles of bezel 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 claw and bezel 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>