



Australian Government

MEM19014 Perform hand engraving

Release: 1

MEM19014 Perform hand engraving

Modification History

Release 1. Supersedes and is equivalent to MEM19014B Perform hand engraving

Application

This unit of competency covers the skills and knowledge required for performing basic hand engraving using hand tool applications. Work includes block and script lettering and carving techniques on mostly flat surfaces to achieve patterns in relief or intaglio.

Where the work being performed requires the item to have shaping/drilling/contour modification using power tools unit MEM18002 Use power tools/hand held operations should also be selected.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Band: A

Unit Weight: 4

Pre-requisite Unit

MEM11011	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information
MEM18001	Use hand tools

Competency Field

Jewellery and horological

Elements and Performance Criteria

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
1	Determine job requirements	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

		1.3	Use appropriate personal protective equipment (PPE) in accordance with SOPs
		1.4	Identify job requirements from specifications, sketches, job sheets or work instructions
2	Select and maintain engraving equipment and accessories	2.1	Identify sequence of procedures and select appropriate equipment
		2.2	Prepare gravers to industry standards
3	Perform hand engraving	3.1	Measure item and mark out for engraving
		3.2	Position work piece and hold or clamp effectively and without damage to the work piece
		3.3	Undertake work according to SOPs and industry standards

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

- Engraving requirements include one (1) or more of the following:**
- block lettering
 - script lettering
 - pictures
 - carvings

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- size requirements
- style requirements

Equipment includes one (1) or more of the following:

- scorpers
- gravers

Unit Mapping Information

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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>

Assessment Requirements for MEM19014 Perform hand engraving

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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
- identifying the engraving sequence and selecting the gravers, scorpers and other applicable tools required to meet specifications
- measuring and marking out using datum lines or points for engraving and positioning and holding item without damage
- completing work according to work specifications
- maintaining the engravers by machining and sharpening graver shape and cutting angles in accordance with SOPs.

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)
- engraving terminology
- sources of task-related information
- securing methods and limitations
- different gravers and scorpers and their applications
- techniques for producing and maintaining cutting edges
- equipment and techniques used for maintaining gravers
- hand engraving techniques for letters and basic pictures and carvings.

Assessment Conditions

- Assessors must:
 - have vocational competency in performing hand engraving 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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