



Australian Government

MEM19009 Perform investment procedures for lost wax casting process

Release: 1

MEM19009 Perform investment procedures for lost wax casting process

Modification History

Release 1. Supersedes and is equivalent to MEM19009B Perform investment procedures for lost wax casting process

Application

This unit of competency defines the skills and knowledge required to prepare investment flasks using manual and automatic equipment for jewellery casting procedures.

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

Band: A

Unit Weight: 1

Pre-requisite Unit

MEM11011	Undertake manual handling
MEM12024	Perform computations
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information
MEM18001	Use hand tools

Plus, one or more of the following

MEM07024	Operate and monitor machine and process
MEM13003	Work safely with industrial chemicals and materials

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 | <ul style="list-style-type: none">1.1 Follow standard operating procedures (SOPs)1.2 Comply with work health and safety (WHS) requirements at all times1.3 Use appropriate personal protective equipment (PPE) in accordance with SOPs1.4 Identify job requirements from specifications, job sheets or work instructions |
| 2 Invest flask | <ul style="list-style-type: none">2.1 Prepare and check materials2.2 Select and prepare casting methods, tools and equipment2.3 Assemble flask for casting2.4 Mix investment and prepare curing stage |
| 3 Operate 'lost wax' sequence and clean site | <ul style="list-style-type: none">3.1 Evacuate 'low melt' wax by steam process3.2 Position and store investment flask3.3 Select and apply 'burn-out' procedure3.4 Clean tools, equipment and site area |

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.

Casting methods include one (1) or more of the following:

- centrifugal casting
- vacuum casting

Tools and equipment include one (1) or more of the following:

- flasks and base
- investment
- scales
- mixers
- bowls
- vacuum

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>