



**Australian Government**

# **Assessment Requirements for MSTTF3011 Apply lofting skills to sail making**

**Release: 1**

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## Modification History

Release 1. Unit code and Application changed. Elements and Performance Criteria simplified with Element 1 and 2 combined. Foundation Skills field populated. Range of Conditions removed with relevant information moved to Knowledge Evidence. Assessment Requirements clarified with generic foundation skills statements moved to appropriate section and duplication with Performance Criteria removed. Supersedes and is equivalent to MSTTF3005 Apply lofting skills to sail making.

## Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- use lofting skills in the production of three different sail products, and for each product:
  - interpret sail design lines and table of offsets defining the pattern to be marked out
  - interpret dimensions and other relevant specifications of components to be incorporated in pattern
  - take accurate measurements and apply lay out, measuring and mark out techniques
  - select, prepare and use appropriate lofting equipment
  - follow quality assurance processes.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- current Australian Standards for sailmaking and their basic requirements
- sail cloths commonly used in sail making, and the performance factors and handling requirements of different fabrics
- sails and sailmaking:
  - sail types for various uses and boat sizes
  - common sail features, including:
    - attachments
    - batten pockets
    - cross-cut, radial and membrane panel layouts
    - foot rounds
    - gussets
    - inserts
    - leech hollows
    - luff curves

- marking reef points
- openings
- reinforcing
- roach profiles
- production design and construction processes
- the reasons for using lofting
- steps involved in the lofting process
- how to interpret design lines and tables of offsets
- basic geometry and geometric drawing
- practices and equipment for laying out, measuring and marking
- bracing methods and materials
- labelling, folding, packing, and transferring requirements of lofted sail cloths
- quality standards for lofted sail cloths
- maintenance of the loft floor
- documentation requirements for sail production:
  - record of inconsistencies or faults
  - record of adhesives, materials and processes used
  - instructions for finishing
  - time and date
  - labelling
  - packing or transfer information.
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## Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
  - sail design specifications
  - sail cloth
  - loft or appropriate area for completion of work
  - lofting tools and equipment
  - workplace procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>