



**Australian Government**

**Assessment Requirements for MEA511  
Operate and maintain sewing machines and  
overlockers**

**Release: 1**

# Assessment Requirements for MEA511 Operate and maintain sewing machines and overlockers

## Modification History

Release 1 - New unit of competency

## Performance Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria under the specified conditions of assessment, and must include:

- applying relevant WHS procedures
- interpreting and applying work instructions and established procedures
- planning and coordinating work activities
- locating and interpreting technical information about machines and materials used in aircraft life support and furnishing
- selecting appropriate needle and thread
- identifying unsatisfactory machine performance
- using relevant hand and power tools
- using relevant chemicals and cleaning agents and dispose of waste products
- maintaining machines and work area
- applying all relevant safety practices
- communicating effectively within the workplace
- documenting and transferring information.

The underlying skills inherent in this unit should be transferable across a range of aircraft life support equipment maintenance activities involving the use of sewing machines/overlockers. It is essential that fabric component manufacture, repair and alteration procedures and safety precautions are fully observed, understood and complied with. Ability to interpret fabric component requirements and apply them in practice is critical.

This is to be demonstrated through demonstration of the ability to perform appropriate manufacturing, repair and alteration tasks that are within the bounds of the individual's authority.

## Knowledge Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- precautions and safe working practices based on relevant WHS legislation, codes of practice, policies and procedures
- advanced work piece construction principles and methods
- characteristics of a wide range of materials used in aircraft life support and furnishing
- operating principles of a wide range of sewing/overlocking machines

- types of needles and threads and their applications
- types of stitching and their applications
- standard industry practice for needle storage and safe disposal
- the range of sewing/overlocking machines, hand tools and power tools used in sewing/overlocking processes and their appropriateness for particular applications
- relevant quality standards for sewn/overlocked products
- power sources, such as single phase, three phase and weather protected outlets
- electrical isolation procedures for sewing/overlocking machines
- safety and environmental requirements of relevant industry and enterprise procedures
- general housekeeping policies and procedures
- recording and reporting procedures.
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## Assessment Conditions

- Access is required to:
  - real or appropriately simulated situations involving the sewing or overlocking of materials used in aircraft life support equipment and in aircraft soft furnishings
  - information on specifications of materials used in sewing and overlocking, settings for machines, relevant safety procedures and regulations, quality standards, and enterprise procedures
  - all necessary facilities, sewing/overlocking machines and associated hand and power tools.
- Assessment may occur on the job or in an industry approved simulated environment.
- The work plan should take account of applicable safety and quality requirements in accordance with the industry and regulatory standards.
- The following conditions of assessment represent the requirements of the Regulators (ADF and CASA) and maintenance stakeholders and must be rigorously observed.
- A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements and performance criteria of the unit of competency are being achieved under routine supervision on a sufficient number of occasions or over sufficient period of time to ensure consistent performance across a typical range of sewing and overlocking requirements performed at the enterprise.
- This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide (for details refer to the Companion Volume Assessment Guidelines).
- Assessors must satisfy the requirements of the National Vocational Education and Training Regulator (Australian Skills Quality Authority, or its successors).

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>