



Australian Government

Assessment Requirements for MEALSU0008 Manufacture, repair and alter aircraft-related fabric components

Release: 1

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Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Assessment Requirements clarified. Supersedes and is equivalent to MEA509 Manufacture, repair and alter aircraft related fabric components.

Performance Evidence

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

- manufacture, repair and alter aircraft-related fabric components on the following tasks:
 - correctly manufacture three fabric components from technical instructions using machine sewing and at least one other assembly method (hand sew, press fit, adhere or staple)
 - recognise at least three faults and identify limits of repair for the fabric components
 - alter one fabric component to meet customer (aircraft configuration authorities, aircrew, engineering maintenance managers, supervisors) defined outcomes
- produce a detailed working plan that covers:
 - cutting plan
 - expected time of completion
 - manpower requirements
 - method and sequence of assembly
 - resource requirements (material, fittings, tools and ground support equipment)
 - technical sketch (working drawing)
- for the components being manufactured, repaired and altered:
 - use basic drawing tools
 - calculate dimension and allowable dimension variations
 - complete measurements and estimate fabric requirements and other materials requirements
 - use pre-checking and inspection techniques to anticipate cutting problems and to avoid reworking and wastage
 - use limited workplace technology related to cutting, including tools, equipment, calculators and measuring devices
 - apply procedures and safety precautions at all times.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- relevant enterprise procedures and maintenance publications, including:
 - equipment manufacturers' specifications and procedures
 - industry practices
 - safety manuals
 - maintenance schedules
 - work instructions
 - maintenance organisation manuals
 - material safety data sheets (MSDSs)
 - standing instructions
- relevant technical instructions, including:
 - aircraft operational requirements
 - job orders
 - manufacturers' specifications
 - maintenance manuals
 - modification instructions
 - technical drawings
- Commonwealth, state and territory work health and safety (WHS) legislation, regulations, codes and procedures for manufacturing, repairing and altering aircraft-related fabric components, including selecting and using personal protective equipment (PPE)
- Australian Standards for fabric components
- relevant Defence Aviation Safety Authority (DASA) and Civil Aviation Safety Authority (CASA) regulations and instructions how to obtain and use MSDSs
- basic sewing techniques using AS 2860-1986 Textiles – stitch types – classification and terminology
- types of aircraft-related fabric components, including:
 - aircraft environmental protection sets and warning devices
 - aircraft life support equipment components
 - aircraft soft furnishings and associated trimming
 - aircrew personal fit and associated life support equipment
 - ground support equipment covers
- construction principles of fabric components
- cutting equipment and techniques
- design features of finished items
- fabric types and inspection procedures
- impact of cutting on fabrics
- geometric drawing processes and techniques
- reading and interpreting specifications
- typical faults that may affect aircraft fabric components:
 - broken stitching
 - broken zippers
 - contamination

- corrosion of metal parts
- damaged fittings
- excessive wear
- incorrect manufacture
- tears in fabric
- ultraviolet (UV) degradation.
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Assessment Conditions

The following conditions of assessment represent the requirements of the regulators (DASA and CASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in manufacturing, repairing and altering aircraft-related fabric components. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials relevant to manufacturing, repairing and altering aircraft-related fabric components
 - materials, tools and equipment specified in the maintenance manuals and applicable procedures
 - general- and special-purpose tools and items of ground support equipment.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement.

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=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>