



Australian Government

Assessment Requirements for MEALSU0005 Maintain and pack parachutes

Release: 1

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Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Range of Conditions removed, and relevant information moved to Assessment Requirements. Assessment Requirements clarified. Supersedes and is equivalent to MEA505 Maintain and pack parachutes.

Performance Evidence

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

- maintain and pack parachutes during scheduled or unscheduled maintenance on the following tasks:
 - correctly pack a minimum of three parachutes consecutively and without the need for corrective action by the supervisor
 - recognise the limits of own authority
 - replace a canopy or harness, and perform line sequence tests
 - correctly repair a tear in parachute canopy material through patching, showing both hand and machine sewing skills
 - inspect, test and replace unserviceable parts of a quick release fitting
 - recognise a range of faults and their serviceability limits and repairing within limitations or tolerances, including one example from each type of fault from the following:
 - broken stitching
 - corrosion (e.g. fittings)
 - damaged hardware
 - frayed lines
 - pulled threads
- handle, store and organise transport of equipment used in parachute maintenance and packing
- apply procedures, cleanliness requirements and safety precautions at all times and as relevant to the tasks above.
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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
- standing instructions
- Commonwealth, state and territory work health and safety (WHS) legislation, regulations, codes and procedures for parachute maintenance, including selecting and using personal protective equipment (PPE)
- Australian Standards for oxygen masks
- Defence Aviation Safety Authority (DASA) and Civil Aviation Safety Authority (CASA) regulations and instructions
- how to obtain and use material safety data sheets (MSDSs)
- critical nature of maintaining and packing parachutes, i.e. risk of death
- approved cleaning methods for aviation life support equipment
- components of a parachute and their function, including:
 - canopy
 - hardware (e.g. buckles, eyelets, connector links)
 - harness
 - parachute housing (e.g. pack)
 - quick release fitting
 - rigging lines
- parachute assembly materials of construction
- environmental conditions that may affect parachutes and parachute assemblies including ultraviolet degradation
- typical faults that may affect parachutes and parachute assemblies, including broken stitching
 - broken quick release fitting springs
 - contamination
 - corrosion of metal parts
 - damaged hardware
 - damaged quick release fitting screws
 - excessive wear
 - expired parachute components
 - frayed lines
 - incorrect manufacture
 - pulled threads
 - incorrect rigging line sequence
 - seized quick release fitting lugs
 - stretched lines
 - tears in parachute

- ultraviolet (UV) degradation
- handling, storage and transit procedures relating to parachutes
- physiological effects of flight
- sequence of ejection
- operation of person carrying parachutes
- operation of ballistic parachutes in aircraft recovery
- purpose of different types of canopies
- modification requirements for parachutes
- requirements for a parachute servicing facility
- operation of testing and measuring equipment and tools used to maintain parachutes
- repair limitations for parachutes
- packing tools and measuring equipment required to pack parachutes.
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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 maintaining and packing parachutes. 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 maintaining and packing parachutes
 - 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>