



Australian Government

MEALSU0011 Maintain general aviation recovery devices with ballistic parachute systems

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 MEA512 Maintain general aviation recovery devices with ballistic parachute systems.

Application

This unit describes the skills and knowledge required to apply hand skills and knowledge of general aviation recovery devices (GARD) with ballistic parachute systems to remove, install and maintain the system when fitted to small aircraft. It is required for individuals seeking approval within the Civil Aviation Safety Regulation (CASR) Part 145 and Civil Aviation Regulation (CAR) 30 maintenance organisations to maintain general aviation recovery devices that have ballistic parachute systems. Coverage does not include the maintenance and re-packing of the parachute, which is covered by unit MEALSU0005 Maintain and pack parachutes.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Civil Aviation Safety Authority (CASA) and the Defence Aviation Safety Authority (DASA).

Any other relevant legislation, industry standards and codes of practice within Australia must be applied

Pre-requisite Unit

DEFEXO001 Work safely with explosive ordnance

MEA107 Interpret and use aviation maintenance industry manuals and specifications

MEA154 Apply work health and safety practices in aviation maintenance

MEA155 Plan and organise aviation maintenance work activities

MEA156 Apply quality standards during aviation maintenance activities

MEA157 Complete aviation maintenance industry documentation

MEA158 Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

Competency Field

Aviation maintenance

Elements and Performance Criteria

Elements	Performance Criteria
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Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Inspect GARD ballistic parachute system	1.1 Inspect ballistic parachute container in accordance with maintenance data 1.2 Inspect parachute deployment rocket and operating cable in accordance with maintenance data while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDSs) and items of personal protective equipment (PPE) 1.3 Verify remaining life of installed devices from aircraft documentation 1.4 Complete maintenance documentation in accordance with standard enterprise procedures
2. Remove GARD ballistic parachute system	2.1 Disconnect operating cable and remove rocket in accordance with applicable maintenance data and explosives handling safety precautions 2.2 Remove parachute container from aircraft in accordance with maintenance data while observing all relevant WHS requirements, including using MSDS and items of PPE 2.3 Complete maintenance documentation in accordance with standard enterprise procedures
3. Install GARD ballistic parachute system	3.1 Install parachute container in accordance with maintenance data 3.2 Fit rocket and connect operating cable in accordance with maintenance data and explosives handling safety precautions 3.3 Complete maintenance documentation in accordance with standard enterprise procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria

- Reading skills to interpret maintenance manuals.
- Numeracy skills to interpret technical information.
- Writing skills to complete maintenance documentation.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEA512 Maintain general aviation recovery devices with ballistic parachute systems.

Links

Companion Volume Implementation Guides are found in VETNet – -

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

Assessment Requirements for MEALSU0011 Maintain general aviation recovery devices with ballistic parachute systems

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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 general aviation recovery devices with ballistic parachute systems on the ballistic parachute systems maintained by the organisation, by doing each of the following at least once:
 - observe explosive ordnance handling safety precautions and maintenance data to:
 - inspect the system and verify remaining life of installed devices
 - disconnect the rocket and remove the ballistic parachute system
 - install the ballistic parachute system and connect the operating cable to the rocket.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- ballistic parachute:
 - operation
 - hazards and safety precautions
 - parachute and rocket installed lives
 - maintenance data, including:
 - aircraft maintenance manuals
 - manufacturer maintenance manuals
 - regulatory requirements.
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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 general aviation recovery devices with ballistic parachute systems. 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 general aviation recovery devices with ballistic parachute systems
 - tools and equipment specified in maintenance documentation
 - general-purpose tools and test equipment found in most routine situations.

Candidates must be able to demonstrate the ability to assess system serviceability and interpret remaining life of installed devices before undertaking any action.

Candidates must have completed an approved general aviation recovery devices (GARD) system maintenance course that includes coverage of ballistic parachute systems prior to assessment of this unit.

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.

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