



**Australian Government**

# **MEA513 Maintain and pack survival inflatable life rafts**

**Release: 2**

# MEA513 Maintain and pack survival inflatable life rafts

## Modification History

Release 2. Equivalent to MEA513 Maintain and pack survival inflatable life rafts with amended prerequisite codes.

## Application

This unit of competency requires application of skills and knowledge relating to the maintenance and packing of survival inflatable life rafts. Maintenance involves inspection, testing, fault diagnosis, replacement of parts and cleaning during the performance of scheduled or unscheduled maintenance. Maintenance may be performed individually or as part of a team.

The unit does not include repairing life rafts.

The unit applies to a range of types of survival inflatable life raft and is part of the Aeroskills Life Support and Furnishing Certificate III and IV training pathways.

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

## Pre-requisite Unit

MEA107	Interpret and use aviation maintenance industry manuals and specifications
MEA118	Conduct self in the aviation maintenance environment
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

Aircraft life support

## Unit Sector

### Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- |   |   |
|---|---|
| 1. Maintain survival inflatable life raft | 1.1 Survival inflatable life raft and associated ancillary equipment is inspected for serviceability in accordance with standard procedures   |
|   | 1.2 Identified faults beyond own authority to rectify are reported to supervisor and faulty survival inflatable life raft, ancillary equipment is quarantined   |
|   | 1.3 Unserviceable parts of the survival inflatable life raft and ancillary equipment items are replaced in accordance with standard procedures while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDS) and items of personal protective equipment (PPE) |
|   | 1.4 Survival inflatable life raft is tested for serviceability in accordance with standard procedures and manufacturer's specifications   |
|   | 1.5 Survival inflatable life raft is cleaned in accordance with standard procedures   |
|   | 1.6 Survival inflatable life raft is presented for inspection by supervisor in accordance with standard procedures  |
|   | 1.7 Maintenance documentation is completed and processed in accordance with standard enterprise procedures  |
| 2. Pack survival inflatable life raft     | 2.1 Survival inflatable life raft is packed for use in accordance with standard procedures  |
|   | 2.2 Ancillary equipment is packed for use in accordance with standard procedures  |
|   | 2.3 Survival inflatable life raft is presented for inspection by supervisor in accordance with standard enterprise procedures   |
|   | 2.4 Relevant documentation is completed and processed in accordance with standard enterprise procedures   |

## Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

**Applicable types of survival inflatable life rafts include:**

- 10U Mk8
- F2B
- LRU 16

**Ancillary equipment includes:**

- Electronic locating devices
- Lighting devices
- Pyrotechnics
- Rations
- Survival/location aids
- Water

**Standard procedures are found in any or all of:**

- Commonwealth/state/territory WHS legislation, regulations and codes
- Australian Standards
- equipment manufacturers' specifications and procedures
- Industry practices
- Safety manuals
- Maintenance schedules
- Work instructions
- Maintenance organisation manuals
- MSDS
- Defence regulations and instructions
- Civil Aviation Safety Regulations (CASRs) and advisory material
- Standing instructions

**Faults include:**

- Abrasion
- Broken stitching
- Contamination
- Corrosion of metal parts
- Damaged hardware
- Delamination/porosity

- Expired components or equipment
  - Faulty valves
  - Frayed lines
  - Holes
  - Incorrect manufacture
  - Lifting tapes
  - Ultraviolet (UV) degradation
- Parts include:**
- Cylinders
  - Operating head
  - Valves
  - Valise
- Testing includes:**
- Checking ancillary equipment (e.g. electronic locating devices, survival/location aids)
  - Cylinder weight tolerance
  - Inflation tests
  - Light and battery test

## Unit Mapping Information

Release 2. Equivalent to MEA513 Maintain and pack survival inflatable life rafts

## Links

Companion Volume implementation guides are found in VETNet -

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