



Australian Government

Assessment Requirements for MEALSU0003 Maintain and fit immersion suits

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 MEA503 Maintain and fit immersion suits.

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 three immersion suits, covering a representative range of maintenance tasks, and correctly fit anti-G suits to at least three differently sized individuals
- use applicable tools and maintenance documentation to:
 - test and inspect immersion suits for serviceability
 - replace unserviceable components (boots, gloves, life-line, light, seals around wrist and neck, whistle) in accordance with approved procedures, including the use of hazardous materials and adhesives
 - select and use appropriate immersion suit cleaning materials
 - correctly fit immersion suits to users, adjusting leg length, sleeve length and trimming seals
- operate specialist equipment, including at least three of the following:
 - heat press
 - vacuum heat sealer
 - 3 stage in-line breathing apparatus
 - filter extraction systems
 - spill kits
- apply procedures, cleanliness requirements and safety precautions at all times, and as relevant to the maintenance and fitting tasks being performed.
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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
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- work instructions
 - maintenance organisation manuals
 - standing instructions
 - Commonwealth, state and territory work health and safety (WHS) legislation, regulations, codes and procedures for immersion suit maintenance, including selecting and using personal protective equipment (PPE)
 - Australian Standards for oxygen masks
 - Defence Aviation Safety Authority (DASA) regulations and instructions
 - how to obtain material safety data sheets (MSDSs)
 - emergency procedures in relation to chemical spills and emergency evacuation of personnel in distress
 - chemical disposal procedures
 - requirements for storage of adhesives
 - cold shock and hypothermia in relation to survival
 - priorities of survival and how they relate to immersion suits and associated ancillary equipment
 - physiological effects of flight
 - critical nature of maintaining and fitting immersion suits
 - materials used to manufacture immersion suits (i.e. neoprene and Gor-Tex)
 - operation of testing and measuring equipment and tools used to maintain immersion suits
 - components of an immersion suit and their function
 - typical faults that may affect immersion suits, including:
 - contamination
 - corrosion of metal parts, such as zippers
 - delamination
 - incorrect manufacture
 - leaks
 - lifting of tapes
 - scuffing (e.g. boot)
 - tears in suit or seals
 - modification requirements for immersion suits
 - immersion suit repair procedures and limitations
 - immersion suit cleaning methods and materials
 - handling, storage and transit procedures relating to life support equipment
 - handling and storage procedures relating to immersion suits (i.e. Macpac highly susceptible to damage)
 - specialist equipment operation, including:
 - heat press
 - vacuum heat sealer
 - 3 stage in-line breathing apparatus
 - filter extraction systems
 - spill kits.
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Assessment Conditions

The following conditions of assessment represent the requirements of the regulators DASA and Civil Aviation Safety Authority (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 fitting immersion suits. 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 fitting immersion suits
 - materials, tools and equipment specified in the maintenance manuals and applicable procedures
 - general- and special-purpose tools and items of ground support required for maintaining and fitting immersion suits.

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>