



Australian Government

**Assessment Requirements for
MEAAVI0043 Terminate and repair
aircraft optical fibre cable**

Release: 1

Assessment Requirements for MEAAVI0043 Terminate and repair aircraft optical fibre cable

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 MEA266 Terminate and repair aircraft optical fibre cable.

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:

- terminate and repair aircraft optical fibre cable on at least two occasions, including:
 - termination of optical fibre cable using a range of connector types
 - repair of optical fibre cable
- clean and polish optical connectors
- repair optical fibre cable by splicing.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- types of optical connector
- materials and procedures for cleaning and polishing optical connectors
- tools and materials used for fitting optical connectors
- optical fibre cable construction and characteristics, including:
 - strain relief and bend radius
 - cable installation precautions
- methods of splicing optical fibre cable
- light transmission methods and applications
- types of optical receiver
- test equipment, including:
 - calibrated light source and light receiver
 - power meter
 - optical time domain reflectometers
- cable inspection and testing
- relevant specifications, standards and maintenance data, including:
 - ARINC Specification 801 Fibre Optic Connectors
 - ARINC Specification 802 Fibre Optic Cables
 - ARINC Specification 805 Fibre Optic Test Procedures

- ARINC Specification 806 Fibre Optic Installation and Maintenance Procedures
- AS/NZS 2211:2006 Safety of laser products (Parts 1 and 2)
- CASA AC21-99 - Aircraft Wiring and Bonding, Section 2 Chapter 19 0 - Fibre Optics
- work health and safety (WHS) procedures associated with optical fibre cable termination and repair, including laser safety procedures
- personal protective equipment (PPE) required for optical fibre termination and repair
- maintenance manuals for optical fibre cable termination and repair
- relevant regulatory requirements and standard procedures.

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 terminating and repairing aircraft optical fibre cable. 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 terminating and repairing aircraft optical fibre cable
 - tools and equipment specified in the aircraft maintenance manuals
 - general and special-purpose test equipment found in most routine situations.

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>