



Australian Government

MEA239 Fabricate aircraft electrical looms and harnesses

Release: 2

MEA239 Fabricate aircraft electrical looms and harnesses

Modification History

Release 2. Equivalent to MEA239 Fabricate aircraft electrical looms and harnesses with amended prerequisite codes.

Application

This unit of competency requires application of hand skills and maintenance publications in aircraft hangars and workshops to fabricate aircraft electrical looms and harnesses under qualified person guidance for general use in electrical systems during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit is part of the Avionic Certificate II training pathway.

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
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

Unit Sector

Elements and Performance Criteria

Elements describe the Performance criteria describe the performance needed to

essential outcomes.

demonstrate achievement of the element.

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| 1. Prepare to fabricate aircraft electrical looms and harnesses | 1.1 Appropriate materials, tools and equipment are selected and prepared for the particular task in accordance with applicable maintenance documentation, enterprise procedures and under qualified person guidance |
| | 1.2 Assembly or fabrication jigs, where applicable, are aligned to ensure accurate fabrication of components |
| 2. Fabricate aircraft electrical looms and harnesses | 2.1 Components or parts are fabricated in accordance with qualified person guidance, applicable maintenance documentation and enterprise procedures while observing all relevant work health and safety (WHS) requirements |
| 3. Perform routine tests on aircraft electrical looms and harnesses | 3.1 Under qualified person guidance test equipment and/or rigs are used, where applicable, to confirm serviceability of finished components |
| 4. Complete the fabrication process with regard to aircraft electrical looms and harnesses | 4.1 Fabricated components are tagged, sealed and packaged within specified 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.

Components or parts include:

- Electrical looms, harnesses and cables **except** for:
 - data bus cables
 - co-axial cables
 - fibre optic cables
 - fire detection/extinguishing systems
 - oxygen systems
 - fuel tanks and integrated hardware

Unit Mapping Information

Release 2. Equivalent to MEA239 Fabricate aircraft electrical looms and harnesses

Links

Companion Volume implementation guides are found in VETNet -

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