



Australian Government

Assessment Requirements for MEA372

Perform mechanical elementary maintenance

Release: 2

Assessment Requirements for MEA372 Perform mechanical elementary maintenance

Modification History

Release 2 - Additional items added to Range of Conditions to align with CASR Part 66 MOS and related changes made to Assessment Requirements

Performance Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria under the specified conditions of assessment, and must include:

- applying all relevant WHS procedures, including the selection and use of MSDS and applicable items of PPE
- correctly removing and installing mechanical components listed in the Range of Conditions
- performing repairs listed in the Range of Conditions and classified as elementary maintenance
- removing and installing removable items of cabin and cockpit equipment including co-pilot control levers
- removing, checking and reinstalling engine chip detectors.
- performance of engine compression tests

The underlying skills inherent in this unit should be transferable across a range of elementary maintenance and repair applications across the aircraft types maintained by the enterprise. It is essential that the relevant procedures are interpreted and applied to ensure quality and safety standards are achieved.

Knowledge Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- applicable WHS procedures, including the use of PPE and MSDS
- aircraft configuration and safety precautions associated with component removal and installation tasks listed in the Range of Conditions
- types of aircraft fabric coverings and the procedures for minor repairs classified as elementary maintenance
- aircraft composite materials and associated safety precautions
- aircraft window materials and construction
- methods of minor composite repairs classified as elementary maintenance
- methods for performing minor repairs to cabin trim and upholstery
- purpose of chip detectors and inspection requirements

- procedure for performing engine compression tests

Assessment Conditions

- Competency should be assessed in the work environment or simulated work environment using tools and equipment specified in maintenance documentation. It is also expected that general-purpose tools and test equipment found in most routine situations would be used where appropriate.
- The following conditions of assessment represent the requirements of CASA and maintenance stakeholders and must be rigorously observed.
- A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements and performance criteria of the unit of competency are being achieved under routine supervision on the following mechanical elementary maintenance tasks:
 - replacement of defective locking wire or split pins used on other than flight control systems
 - removal and installation of passenger and crew seat safety restraints
 - removal and installation of co-pilot control levers
 - removal and installation of simple hose connections not requiring special tools or bench assembly (excludes hydraulic connections and engine compartment fuel and oil pressure or scavenge hose connections)
 - removal and installation of prefabricated fuel lines
 - removal and installation of aircraft wheels or skids, including servicing and inspection of wheel bearings and replacement of tyres
 - removal and installation of landing gear elastic shock absorber cords
 - removal and installation of engine cowls not requiring propeller removal or disconnection of engine controls
 - removal and installation of induction system baffles
 - removal and installation of non-structural passenger cabin partitions
 - replacement of side windows in non-pressurised cabins
 - removal and installation of spark plugs, includes cleaning and setting of gap clearance
 - performance of cylinder compression tests
 - removal and installation of fuel and oil strainers or filter elements, includes element disassembly and cleaning, where applicable
 - removal, checking and installation of magnetic chip detectors
 - removal and installation of doors on non-pressurised aircraft
 - small simple repairs to fairings, non-structural cover plates and cowlings
 - simple fabric patches not requiring rib stitching or the removal of structural components (not on flight controls)
 - minor repairs to cabin trim and upholstery
 - restoration of finish after repairs and minor touch-up of decorative coatings
 - adding oil, air or both to non-retractable landing gear shock struts.

- This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide (for details refer to the Companion Volume Assessment Guidelines).
- Assessors must satisfy the requirements of the National Vocational Education and Training Regulator (Australian Skills Quality Authority, or its successors).
- Where the unit is to be used for CASA licensing purposes the Assessor must also meet the criteria specified in the CASR Part 147 Manual of Standards.

Links

Companion Volume implementation guides are found in VETNet -

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