



Australian Government

MEA366 Perform borescope inspections

Release: 2

MEA366 Perform borescope inspections

Modification History

Release 2. Equivalent to MEA366 Perform borescope inspections with ammended prerequisite units.

Application

This unit of competency is applied in conjunction with units relating to the inspection, testing and troubleshooting of piston engines and gas turbine engines (either installed in aircraft or in workshops), to perform and assess the results of remote visual inspections using borescopes.

The unit is required for the grant of approval for Aircraft Maintenance Engineers to perform borescope inspections on aircraft system components and engines during scheduled or unscheduled maintenance.

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

MEA313 Inspect, test and troubleshoot piston engine systems and components

OR

MEA314 Inspect, test and troubleshoot gas turbine engine systems and components

OR

MEA322 Test and troubleshoot gas turbine engine systems and components

OR

MEA387 Test gas turbine engines and engine modules after overhaul or repair

Competency Field

Aviation maintenance

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Set up borescope equipment	1.1 Applicable borescope equipment is obtained and assembled for use
	1.2 Assembled borescope equipment is tested for correct operation
2. Perform borescope inspection	2.1 Component or engine is prepared for safe borescope inspection in accordance with applicable maintenance data
	2.2 Borescope inspections are performed in accordance with applicable maintenance data or standard operating procedures
3. Record and assess borescope inspection results	3.1 Borescope inspection results are recorded and processed in accordance with standard enterprise procedures for the applicable borescope equipment
	3.2 Identified defects are recorded and reported in accordance with standard enterprise procedures
4. Maintain and re-pack borescope equipment for storage	4.1 Borescope equipment is disassembled, maintained and cleaned in accordance with manufacturer's instructions
	4.2 Borescope equipment is replaced in transport or storage containers and stored 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.

Borescope equipment includes:

- Rigid optical borescopes
- Flexible optical borescopes
- Video borescopes
- Camera attachments for optical borescopes
- Remote engine rotation equipment

Applicable maintenance data includes:

- Borescope user manuals
- Engine maintenance manuals
- Servicing schedules
- Regulatory requirements, such as Airworthiness Directives or Special Technical Instructions

Procedures and requirements include:

- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

Unit Mapping Information

Release 2. Equivalent to MEA366 Perform borescope inspections.

Links

Companion Volume implementation guides are found in VETNet -

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