



Australian Government

MEAMEC0065 Repair and overhaul gas turbine, engine turbine and exhaust section components

Release: 1

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Modification History

Release 1. Application changed. 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 MEA385 Repair and/or overhaul gas turbine engine turbine and exhaust section components.

Application

This unit describes the skills and knowledge required to apply hand skills, theory knowledge and maintenance publication procedures to repair and overhaul aircraft gas turbine engine turbine and exhaust section components in workshops during the performance of scheduled or unscheduled maintenance. Maintenance may be performed individually or as part of a team.

This unit applies to turbine and exhaust section components from turbojet, turbofan, turboshaft, turboprop engines and engine modules, or auxiliary power units.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Civil Aviation Safety Authority (CASA) and the Defence Aviation Safety Authority (DASA).

Any other relevant legislation, industry standards and codes of practice within Australia must be applied.

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

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.

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1. Determine requirements	1.1 Interpret and match component defect reports (removal tags) or customer order by part and serial numbers 1.2 Inspect and/or operate turbine and exhaust section components through prescribed test procedures to establish serviceability and confirm defects, when required 1.3 Clearly establish modification status to assist in determining the overhaul requirements for the components 1.4 Identify and document extent of overhaul or repair in accordance with standard enterprise procedures
2. Troubleshoot turbine and exhaust section components	2.1 Use available information from maintenance records and test results, when required, to assist in fault determination 2.2 Use logical processes to ensure efficient and accurate troubleshooting 2.3 Obtain specialist advice, when required, to assist with, or confirm, the fault and rectification requirement 2.4 Locate turbine and exhaust section component faults and clearly identify the causes of the faults 2.5 Determine fault rectification requirements to assist in planning the repair
3. Dismantle and inspect turbine and exhaust section component parts	3.1 Dismantle turbine and exhaust section component parts in accordance with maintenance manual while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDSs) and items of personal protective equipment (PPE) 3.2 Assess component parts for serviceability in accordance with the relevant maintenance documentation 3.3 Tag parts requiring specialist repair and specify repair instructions in accordance with standard enterprise procedures 3.4 Prepare parts requiring non-destructive testing for testing in accordance with the relevant maintenance documentation 3.5 Compile and process parts lists in accordance with standard enterprise procedures
4. Repair or modify turbine and exhaust section components or	4.1 Repair or replace component parts in accordance with the relevant maintenance documentation 4.2 Modify components, when required, in accordance with relevant

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parts	manufacturers' bulletins or procedures and/or customer requirements
5. Assemble and adjust turbine and exhaust section components	5.1 Balance turbine and exhaust section component parts where required and assemble within specified tolerances and in accordance with the appropriate maintenance documents while observing all relevant WHS requirements, including the use of MSDSs and items of PPE 5.2 Remove support or safety equipment, where fitted, at the appropriate time 5.3 Adjust components to ensure that fits and clearances are within prescribed specifications, and seek required supervisory guidance for complex testing and adjustments 5.4 Tag, seal and pack finished components in accordance with standard enterprise procedures 5.5 Complete required maintenance documentation and modification records and process in accordance with standard enterprise procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret maintenance documentation, specifications (allowable limits) and procedures.
- Writing skills to complete maintenance documentation.
- Numeracy skills to interpret and communicate technical information.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEA385 Repair and/or overhaul gas turbine engine turbine and exhaust section components.

Links

Companion Volume implementation guides are found in VETNet – -

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