Title	Repair or overhaul aircraft powerplant turbine sections		
Level	4	Credits	20

turbine sections.
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Classification	Aeronautical Engineering > Aircraft Powerplant Repair and Overhaul
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Available grade
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#### **Guidance Information**

1 All tasks must be carried out in accordance with enterprise procedures.

## 2 Definition

Enterprise procedures – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.

- 3 Repair or overhaul activities are those usually carried out in a specialist bay or workshop.
- 4 Turbine sections may include intakes, rotating and stationary assemblies, frames, sumps, seals, bearings.
- 5 Credit for this unit standard may also be gained from tasks assessed on aeroderivative engines, and associated systems and components used for marine or industrial applications.

# Outcomes and performance criteria

## **Outcome 1**

Prepare to repair or overhaul aircraft powerplant turbine sections.

#### Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.
- 1.2 Turbine section identity is confirmed with documentation.
- 1.3 Work area is prepared, and resources are obtained and checked.

Range may include but is not limited to – publications, materials, tools, equipment, safety equipment, environmental conditions established.

1.4 Turbine section is prepared for repair or overhaul.

Range may include but is not limited to – clean, inspect.

1.5 Next task is determined and documented.

#### Outcome 2

Locate defects in aircraft powerplant turbine sections.

#### Performance criteria

- 2.1 Defects are located using troubleshooting techniques appropriate to the defect indications.
- 2.2 Defects found during troubleshooting are reported and documented.

#### Outcome 3

Repair or overhaul aircraft powerplant turbine section components.

## Performance criteria

3.1 Component is disassembled.

Range may include but is not limited to – clean, label, preserve, segregate, store.

- 3.2 Defects found during disassembly are reported and documented.
- 3.3 Rectification action is determined and documented.
- 3.4 Replacement parts are procured and verified as authentic and serviceable.

Range identify, inspect.

3.5 Defects are rectified.

Range may include but is not limited to – repair, replace, modify, adjust.

- 3.6 Component is assembled.
- 3.7 Inspections are obtained.

### **Outcome 4**

Complete the repair or overhaul task for aircraft powerplant turbine sections.

#### Performance criteria

4.1 Turbine section is prepared for use, storage, or transit.

Range may include but is not limited to – locking, inhibiting, blanking,

packing, labelling.

4.2 Resources are checked for serviceability and returned to service or storage.

Range may include but is not limited to – tools, equipment, safety

equipment, publications.

4.3 Leftover parts and materials are disposed of.

Range may include but is not limited to – serviceable, unserviceable,

surplus, waste, scrap, hazardous.

- 4.4 Documentation is completed.
- 4.5 Work area is left in a state that enables the next task to begin.

Replacement information	This unit standard, unit standard 23161, unit standard 23162, and unit standard 23164 replaced unit standard 3423.	
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Diamad variant data	24 December 2004
Planned review date	31 December 2024

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 September 2006	31 December 2016
Review	2	18 June 2014	31 December 2021
Review	3	26 March 2020	N/A

Consent and Moderation Requirements (CMR) reference	0028
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This CMR can be accessed at http://www.nzga.govt.nz/framework/search/index.do.

## Comments on this unit standard

Please contact ServiceIQ <u>qualifications@serviceiq.org.nz</u> if you wish to suggest changes to the content of this unit standard.