

Title	Disassemble and assemble aircraft gas turbine engines		
Level	4	Credits	15

Purpose	People credited with this unit standard are able to: prepare to disassemble and assemble aircraft gas turbine engines; disassemble aircraft gas turbine engines; assemble aircraft gas turbine engines; and complete the disassembly and assembly tasks for aircraft gas turbine engines.
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Classification	Aeronautical Engineering > Aircraft Powerplant Repair and Overhaul
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Available grade	Achieved
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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 Disassembly and assembly activities are those usually carried out in a specialist bay or workshop.
- 4 Gas turbine engines may include intake, fan, compressor, combustion, turbine and exhaust modules; removal and installation of internal and external gearboxes, engine mounted accessories and components, oil and fuel systems.
- 5 Credit for this unit standard may also be gained from tasks assessed on aero-derivative engines, and associated systems and components used for marine or industrial applications.

Outcomes and performance criteria

Outcome 1

Prepare to disassemble and assemble aircraft gas turbine engines.

Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.
- 1.2 Engine 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 Engine is prepared for disassembly and assembly.
- Range may include but is not limited to – clean, inspect.
- 1.5 Next task is determined and documented.
- Range may include but is not limited to – disassemble, assemble, complete the task.

Outcome 2

Disassemble aircraft gas turbine engines.

Performance criteria

- 2.1 Engine is disassembled.
- Range may include but is not limited to – clean, label, preserve, segregate, store.
- 2.2 Defects found during disassembly are reported and documented.
- 2.3 Inspections are obtained.

Outcome 3

Assemble aircraft gas turbine engines.

Performance criteria

- 3.1 Replacement parts are procured and verified as authentic and serviceable.
- 3.2 Engine is assembled.
- 3.3 Inspections are obtained.

Outcome 4

Complete the disassembly and assembly tasks for aircraft gas turbine engines.

Performance criteria

- 4.1 Engine 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 23163, replaced unit standard 3423.
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Planned review date	31 December 2027
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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
Rollover and Revision	4	30 May 2024	N/A

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

Comments on this unit standard

Please contact Ringa Hora Services Workforce Development Council qualifications@ringahora.nz if you wish to suggest changes to the content of this unit standard.