Title	**Repair or overhaul aircraft gas turbine engine fuel system components**		
Level	**4**	**Credits**	**12**

Purpose	People credited with this unit standard are able to: prepare to repair or overhaul aircraft gas turbine engine fuel system components; locate defects in aircraft gas turbine fuel system components; repair or overhaul aircraft gas turbine fuel system components; test and adjust aircraft gas turbine fuel system components; and complete the repair or overhaul task for aircraft gas turbine fuel system components.

Classification	Aeronautical Engineering > Aircraft Powerplant Repair and Overhaul

Available grade	Achieved

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 Aircraft gas turbine engine fuel system components may include pumps, filters, actuators, valves, burners, nozzles, atomisers.

5 This unit standard excludes fuel control units, which are covered by Unit 3417, *Repair or overhaul aircraft gas turbine engine fuel control units*.

6 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 repair or overhaul aircraft gas turbine engine fuel system components.

Performance criteria

1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.

1.2 Component 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 Component is prepared for repair or overhaul.

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 – locate defects, repair, overhaul, test, adjust, complete the task.

Outcome 2

Locate defects in aircraft gas turbine engine fuel system components.

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 gas turbine engine fuel system components.

Performance criteria

3.1 Component is disassembled.

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

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

Test and adjust aircraft gas turbine engine fuel system components.

Performance criteria

4.1 Component is prepared for testing.

4.2 Component is tested and adjusted.

Range may include but is not limited to – troubleshoot, functionally test, calibrate, adjust, document adjustments and performance.

4.3 Inspections are obtained.

Outcome 5

Complete the repair or overhaul task for aircraft gas turbine engine fuel system components.

Performance criteria

5.1 Component is prepared for use, storage, or transit.

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

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

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

5.3 Leftover parts and materials are disposed of.

Range may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous.

5.4 Documentation is completed.

5.5 Work area is left in a state that enables the next task to begin.

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	20 June 1995	31 December 2016
Revision	2	7 August 1997	31 December 2016
Revision	3	8 May 2001	31 December 2016
Review	4	25 September 2006	31 December 2016
Review	5	18 June 2014	31 December 2021
Review	6	26 March 2020	N/A

Consent and Moderation Requirements (CMR) reference	0028

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Comments on this unit standard

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