

Title	Defuel aircraft		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to: prepare to defuel aircraft; defuel aircraft; and complete finishing activities related to defueling aircraft.
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Classification	Aeronautical Engineering > Aircraft Mechanical Maintenance
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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 This unit standard may be assessed against the use of pressurised or gravity systems.
 - 4 The scope of the system that this standard relates to is described in ATA iSpec 2200, chapter 12.
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Outcomes and performance criteria

Outcome 1

Prepare to defuel aircraft.

Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation.
- 1.2 Environmental conditions in which the task is to be carried out are checked for suitability.

Range	may include but is not limited to – precipitation, lightning, airborne dust and/or debris.
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- 1.3 Resources are obtained and checked for serviceability or status.
- Range may include but is not limited to – publications, tools, safety equipment, support equipment, defueling equipment.
- 1.4 Quantity or weight of fuel to be unloaded is calculated.
- Range may include but is not limited to – gallons, litres, pounds, kilograms, specific gravity.
- 1.5 Aircraft registration and system to be defueled are matched with documentation.
- 1.6 Aircraft and systems are prepared for the application and removal of power and for system operation.
- Range may include but is not limited to – cockpit controls match component positions, clearances obtained, isolation tags fitted/removed, warning signs positioned, aircraft levelled, aircraft positioned, ignition sources eliminated, aircraft earthed.
- 1.7 Aircraft and ground equipment are positioned ready for defueling.
- Range may include but is not limited to – pumps, ground power units, stands, fire extinguishers.

Outcome 2

Defuel aircraft.

Performance criteria

- 2.1 Fuel, containers, and equipment are matched with system to be defueled.
- 2.2 Aircraft is defueled.
- Range may include but is not limited to – fuel quality tested to determine if disposal is required, bonding attached, defueling equipment connected, defueling sequence and quantity monitored and controlled.
- 2.3 Initial action to be taken in an abnormal situation is demonstrated.
- Range may include but is not limited to – fire, spillage, personal contamination by fuel.

Outcome 3

Complete finishing activities related to defueling aircraft.

Performance criteria

- 3.1 Aircraft, system, and work areas are left in a state that enables the next task to begin.
- 3.2 Resources are checked for serviceability and returned to service or storage.
- 3.3 Any defects and abnormal situations are reported and documented.
- 3.4 Documentation is completed.

Replacement information	This unit standard and unit standard 20634 replaced unit standard 3910.
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Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 April 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.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.