

Title	Load water and additives for aerial operations at vegetation fires		
Level	3	Credits	2

Purpose	<p>This unit standard is for fire and rescue personnel performing operations under supervision as part of a crew at vegetation fires.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of safe practices when loading aircraft with water and additives; work as part of a crew to set up a site for aircraft loading and filling operations; and fill helicopter buckets or fixed wing hoppers with water and additives to safe load levels.</p>
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Classification	Fire and Rescue Services > Fire and Rescue Services - Vegetation
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Available grade	Achieved
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Entry information	
Critical health and safety prerequisites	Unit 20388, <i>Work safely with aircraft at emergency incidents</i> , or demonstrate equivalent knowledge and skills.

Explanatory notes

- 1 Compliance with the fire and rescue service provider’s Health and Safety policy and procedures is mandatory.
- 2 Assessment against this unit standard may take place under real or practical simulated conditions.
- 3 Definitions
Fire and rescue service provider’s requirements refer to policies and procedures on safety and operation set down by each fire and rescue service employer or host organisation.
Incident Action Plan (IAP) is a statement of the objectives, strategies, and critical functions to be taken at the incident.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of safe practices when loading aircraft with water and additives.

Range aircraft include – fixed wing, rotary wing.

Evidence requirements

1.1 A safe work area is explained in accordance with the fire and rescue service provider's requirements.

Range defined working zone, location of equipment and consumables, vehicle parking, security of loose items of equipment, work surface.

1.2 Personal protective equipment required for the filling operation is identified in accordance with the fire and rescue service provider's requirements.

Range factors – water/cold protection, head/vision/hearing protection, safety footwear, high visibility clothing.

1.3 Methods of communication within the crew during a filling operation are explained in accordance with the fire and rescue service provider's requirements.

1.4 Requirements for safe handling of retardant and suppressant concentrates are explained in accordance with manufacturers guidelines.

Outcome 2

Work as part of a crew to set up a site for aircraft loading and filling operations.

Range aircraft include – fixed wing, rotary wing.

Evidence requirements

2.1 Equipment is selected and set up for use in accordance with the IAP.

2.2 Consumables are arranged on site in accordance with the IAP.

Outcome 3

Fill helicopter buckets or fixed wing hoppers with water and additives to safe load levels.

Evidence requirements

- 3.1 Filling is carried out in accordance with the fire and rescue service provider's requirements.
- Range load requirements, additive requirements, safe practices, communications.
- 3.2 Requirements for adjustments of drop pattern are explained in accordance with the fire and rescue service provider's requirements.
- 3.3 Equipment used is recommissioned after use in accordance with the fire and rescue service provider's requirements.

Planned review date	31 December 2014
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	16 March 1995	31 December 2013
Revision	2	21 May 1998	31 December 2013
Review	3	25 March 2004	31 December 2013
Review	4	17 September 2010	N/A

Accreditation and Moderation Action Plan (AMAP) reference	0039
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This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Consent requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Fire and Rescue Services Industry Training Organisation info@frsito.org.nz if you wish to suggest changes to the content of this unit standard.