

Title	Respond to and fight external aircraft fire		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to: respond to call out and position appliance; select strategy for external fire suppression; and fight external aircraft fire.
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Classification	Fire and Rescue Services > Fire and Rescue Services - Airport
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Available grade	Achieved
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Entry information	
Critical health and safety prerequisites	Unit 3272, <i>Wear and operate breathing apparatus in general emergencies</i> ; Unit 3324, <i>Drive rescue fire vehicles in airport environments</i> ; Unit 20391, <i>Demonstrate knowledge of aircraft hazards and hazardous systems for fire and rescue operations</i> ; and Unit 27287, <i>Demonstrate knowledge of small aircraft for fire and rescue operations and carry out emergency shut down procedures</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 Gaining credit for this unit standard will require the operation of both hose and monitor, alone and in a crew. Evidence must be presented for two environmental conditions, and three types of aircraft fire.
Environmental conditions – day, night, rain, wind.
Types of aircraft fire – engine, auxiliary power unit, wheel brake, cargo, cabin, pressurised fuel, running fuel, spilt fuel.
- 4 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.
TCA – theoretical critical area.
PCA – practical critical area.

Outcomes and evidence requirements

Outcome 1

Respond to call out and position appliance.

Evidence requirements

1.1 Emergency activation is responded to in accordance with aerodrome emergency plan and the fire and rescue service provider's requirements.

1.2 Incident site is approached in accordance with the fire and rescue service provider's requirements.

Range upwind, uphill, regard for the safety of walking survivors, allowance for an escape route.

1.3 Aircraft fire is analysed, and priorities and tactics are explained in terms of type and scale in accordance with the fire and rescue service provider's requirements.

Range TCA, PCA, establishing rescue paths.

1.4 Tactical positioning of appliance is in accordance with the fire and rescue service provider's requirements.

Range PCA targeting, appliance equipment range.

Outcome 2

Select strategy for external fire suppression.

Evidence requirements

2.1 Extinguishing agent is selected according to fire type in accordance with the fire and rescue service provider's requirements.

2.2 Application method is selected to control the fire in accordance with the fire and rescue service provider's requirements.

Outcome 3

Fight external aircraft fire.

Evidence requirements

3.1 Extinguishing agent is applied in accordance with the fire and rescue service provider's requirements.

3.2 Survivable conditions and/or exit paths are maintained in accordance with the fire and rescue service provider's requirements.

3.3 Re-ignition is prevented by using a foam blanket, isolating ignition sources, and by cooling hot metals in accordance with the fire and rescue service provider's requirements.

3.4 Potentially hazardous conditions are identified and mitigated in accordance with the fire and rescue service provider's requirements.

Range fuel leaks, presence of hazardous cargo, instability of airframe, aircraft material debris.

3.5 Extinguishing agent supplies are maintained to ensure site stability in accordance with the fire and rescue service provider's requirements.

Replacement information	This unit standard and unit standard 20390 replaced unit standard 3325.
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Planned review date	31 December 2016
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 March 2004	31 December 2013
Review	2	17 November 2011	N/A

Consent and Moderation Requirements (CMR) reference	0039
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This CMR 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, 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.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR 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 Fire and Rescue Services Industry Training Organisation
info@EMQUAL.org.nz if you wish to suggest changes to the content of this unit standard.