

## Manage prescribed vegetation burning operations

**Level** 5

**Credits** 6

**Purpose** This unit standard is for fire and rescue personnel who are required to plan, organise and manage prescribed burning operations, including multiple crews and resources.

People credited with this unit standard are able to: demonstrate knowledge of light-up patterns for prescribed burning operations; plan for prescribed burn of vegetation; prepare for prescribed burn of vegetation; and manage implementation of vegetation burn plan.

**Subfield** Fire and Rescue Services

**Domain** Fire and Rescue Services - Vegetation

**Status** Registered

**Status date** 20 November 2009

**Date version published** 20 November 2009

**Planned review date** 31 December 2014

**Entry information** Prerequisites: Unit 3294, *Lead a prescribed vegetation burning operation crew*, and Unit 4648; *Demonstrate knowledge of vegetation fire behaviour*, or demonstrate equivalent knowledge and skills.

**Accreditation** Evaluation of documentation and visit by NZQA and industry.

**Standard setting body (SSB)** Fire and Rescue Services Industry Training Organisation

**Accreditation and Moderation Action Plan (AMAP) reference** 0039

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

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### Special 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 must take place with the use of live fire.

- 3 Legislation relevant to this unit standard includes the Resource Management Act 1991, Forest and Rural Fires Act 1977, Forest and Rural Fires Regulations 2005, and Fire Service Act 1975.
- 4 Definition  
*Fire and rescue service provider's requirements* refers to policies and procedures on safety and operation set down by each fire and rescue service employer or host organisation.

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## Elements and performance criteria

### Element 1

Demonstrate knowledge of light-up patterns for prescribed burning operations.

#### Performance criteria

- 1.1 Fire behaviour is predicted for different weather interactions for a given geographical area in accordance with fire and rescue service provider's requirements.
- 1.2 Light-up patterns are evaluated for a given burning situation in accordance with fire and rescue service provider's requirements.

### Element 2

Plan for prescribed burn of vegetation.

#### Performance criteria

- 2.1 Information relevant to the prescribed burn is collected and assessed in accordance with the fire and rescue service provider's requirements.
- Range inspection of burn area, interpretation of topographical maps and/or aerial photographs, legislative constraints, risks to adjacent areas, fire behaviour criteria, weather conditions, potential for fire escape, suppression resources.
- 2.2 A written prescribed burn plan is prepared in accordance with the fire and rescue service provider's requirements.
- Range communications, deployment of resources, control line action, formation standards, light-up patterns and techniques, firing sequences, control of prescribed fire, required levels of vegetation removal, protection of exposures and surrounding area, safety of personnel and equipment.
- 2.3 Approval for the prescribed burn plan is obtained in accordance with the fire and rescue service provider's requirements.

### Element 3

Prepare for prescribed burn of vegetation.

#### Performance criteria

- 3.1 Inspection of the prescribed burn area by an authorised Rural Fire Officer is arranged and a fire permit is issued in accordance with the fire and rescue service provider's requirements.
- 3.2 Updated weather forecasts are obtained and support services secured in accordance with the burn plan.
- 3.3 Crew leaders are prepared for the burn operation in accordance with the burn plan.
- Range communications established, tasks allocated, crew leaders briefed.

### Element 4

Manage implementation of vegetation burn plan.

#### Performance criteria

- 4.1 Compliance requirements are met prior to light-up in accordance with the fire and rescue service provider's requirements.
- 4.2 The burn is managed in accordance with the fire and rescue service provider's requirements.
- Range burn plan followed, communication with personnel, communication with Fire Authority, deployment of resources, monitoring of crew performance, threat of fire escape, assessment of burning operation with plan, amendments to plan, mop-up, patrol.
- 4.3 Documentation is completed in accordance with the fire and rescue service provider's requirements.

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#### Please note

Providers must be 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 accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation 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.

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### **Comments on this unit standard**

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