
**FIRE AND RESCUE SERVICES -
VEGETATION**
**Manage prescribed vegetation burning
operations**

level:	5
credit:	6
final date for comment:	March 2008
expiry date:	December 2009
sub-field:	Fire and Rescue Services
purpose:	<p>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, either for burning out purposes or for the clearance of vegetation.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of light up patterns and ignition techniques; plan for prescribed burn of vegetation; prepare for prescribed burn of vegetation; and manage implementation of vegetation burn plan.</p>
entry information:	<p>Recommended: Unit 4648, <i>Demonstrate knowledge of vegetation fire behaviour.</i></p> <p>Prerequisite: Unit 14564, <i>Demonstrate knowledge of the fire environment on vegetation fire behaviour</i>, or demonstrate equivalent knowledge and skills.</p>
accreditation option:	Evaluation of documentation and visit by NZQA and industry.
moderation option:	A national moderation system of moderation networks has been established by the Fire and Rescue Services Industry Training Organisation.

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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 applying to this unit standard is the Resource Management Act 1991 and the Forest and Rural Fires Act 1977.
 - 4 The *higher authority* referred to in this unit standard will be the Principal Rural Fire Officer.

Elements and Performance Criteria

element 1

Demonstrate knowledge of light up patterns and ignition techniques of vegetation fire behaviour.

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 requirements.
- 1.2 Light up patterns are evaluated for a given burning situation in accordance with fire and rescue service provider requirements.

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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 requirements of the fire and rescue service provider.
- 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 Prepare a written prescribed burn plan in accordance with the requirements of the fire and rescue service provider.
- 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; safety of - personnel, equipment, protection of exposures and surrounding area.
- 2.3 Obtain internal approval of the prescribed burn plan in accordance with the requirements of the fire and rescue service provider.

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 requirements of the fire and rescue service provider.
- 3.2 Updated weather forecasts are obtained and support services secured in accordance with the requirements of the fire and rescue service provider.

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3.3 Crews are prepared for the burn operation in accordance with the requirements of the fire and rescue service provider.

Range: communications established, tasks allocated, crew leaders briefed.

element 4

Manage implementation of vegetation burn plan.

performance criteria

4.1 Compliance requirements and conditions of the fire permit are met prior to light up in accordance with the requirements of the fire and rescue service provider.

4.2 The burn is managed in accordance with the requirements of the fire and rescue service provider.

Range: burn plan followed, communication with personnel, communication with higher authority, deployment of resources, monitoring of crew performance, threat of fire escape, assessment of burning operation with plan, amendments to plan.

4.3 The burn mop up and patrol is managed in accordance with the requirements of the fire and rescue service provider.

4.4 Documentation is completed in accordance with the requirements of the fire and rescue service provider.

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.

Please Note

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

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Industry Training Organisations must be accredited by the Qualifications Authority 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 providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0039 which can be accessed at <http://www.nzqa.govt.nz/site/framework/search.html>.