

Lead a prescribed vegetation burning operation crew

Level 4

Credits 3

Purpose This unit standard is for personnel who are required to supervise a crew engaged in the light-up and patrol of prescribed burning operations and for burning out operations at wild fires.

People credited with this unit standard are able to: demonstrate knowledge of vegetation burning equipment; demonstrate knowledge of lighting-up patterns and ignition techniques; supervise a lighting-up crew; assess environment and fire behaviour during lighting-up operations; and communicate during a vegetation burning operation.

Subfield Fire and Rescue Services

Domain Fire and Rescue Services - Vegetation

Status Registered

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Entry information Prerequisites: Unit 3289, *Carry out hand-operated ignition at prescribed vegetation burning operations*; and Unit 14564, *Demonstrate knowledge of the fire environment on 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>.

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 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.

Elements and performance criteria

Element 1

Demonstrate knowledge of vegetation burning equipment.

Performance criteria

- 1.1 Performance characteristics and capabilities of burning equipment are described in accordance with the fire and rescue service provider's requirements.

Range igniters, drip torches, pressurised burners, backpack flame-throwers, aerial ignition equipment.
- 1.2 Safety requirements for burning equipment are explained in accordance with fire and rescue service provider's requirements.

Element 2

Demonstrate knowledge of lighting-up patterns and ignition techniques.

Performance criteria

- 2.1 Light-up methods and patterns, and safe work requirements are explained in accordance with the fire and rescue service provider's requirements.

Range any four of the following – ignition-point spacing, strip lighting, central ignition, spot ignition, burning out, flank burning, ring burning.
- 2.2 Ignition techniques are explained in accordance with the requirements of the fire and rescue service provider.

Element 3

Supervise a lighting-up crew.

Performance criteria

- 3.1 The burn plan, command structure, and communications plan are explained in accordance with the fire and rescue service provider's requirements.

- 3.2 Tasks are allocated in accordance with the burn plan.
- 3.3 Crew members are briefed in accordance with the requirements of the burn plan.
- Range tasks, responsibilities, escape routes, safety procedures, hazards, communications.
- 3.4 Crew performance and safety is monitored and corrective action taken in accordance with the requirements of the burn plan.

Element 4

Assess fire environment and fire behaviour during lighting-up operations.

Performance criteria

- 4.1 The fire environment and fire behaviour is monitored in accordance with the requirements of the burn plan.
- 4.2 Changes in the fire environment and the fire behaviour are assessed and lighting-up action modified in accordance with the requirements of the burn plan.

Element 5

Communicate during a vegetation burning operation.

Range may include but is not limited to – crew, fire supervisors, Fire Authority, aircraft.

Performance criteria

- 5.1 Communication is maintained in accordance with the requirements of the burn plan.
- 5.2 Information is communicated in accordance with the requirements of the burn plan.
- Range work progress, fire behaviour, crew safety.

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.

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.