



Australian Government

AHCFIR301 Undertake burning for fuel, ecological and cultural resource management

Release: 1

AHC FIR301 Undertake burning for fuel, ecological and cultural resource management

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to undertake planned burning and lead on-ground burn operations for agriculture, conservation and land management purposes.

Planned burning is characterised by low risk, low intensity fire, with low potential impact on assets and values, within a defined objective and area with minimal variation in fuel and terrain.

The unit applies to individuals engaged in community and enterprise based organisations who work under broad direction and take responsibility for their own work, including limited responsibility for the work of others. They use discretion and judgement in the selection and use of available resources.

Legislation and regulations apply to planned burns in many jurisdictions. Users are advised to check with the relevant regulatory authority.

Pre-requisite Unit

AHC FIR202 Assist with planned burning

Unit Sector

Fire (FIR)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Coordinate on-ground preparations for planned	1.1 Confirm conditions required to burn with supervisor/burn coordinator

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
burning	1.2 Confirm contingency arrangements and communicate to all personnel 1.3 Confirm permits available and valid according to legislative requirements and workplace procedures 1.4 Issue planned burn advice and day-of-burn notifications to stakeholders 1.5 Identify, assemble and check resources required with burn team 1.6 Establish and check fire control measures are in place according to burn plan 1.7 Identify and implement controls to protect assets and values 1.8 Monitor weather conditions and notify supervisor when conditions are unfavourable for burn 1.9 Identify on-site health and safety hazards, assess risk and implement controls according to workplace procedures 1.10 Deliver burn day operational briefing to burn team
2. Undertake burn day operations	2.1 Coordinate the deployment of resources for burn 2.2 Select, check and provide equipment for personal protection and safety according to workplace standards 2.3 Undertake pre-burn checks in accordance with usual burn day operations 2.4 Utilise ignition techniques according to burn requirements and workplace procedures 2.5 Maintain communications with supervisor/burn coordinator and burn team throughout burn according to workplace procedures 2.6 Monitor burn progress and implement operational changes to ensure burn objectives are met 2.7 Conclude ignition according to burn requirements 2.8 Coordinate mopping-up activities 2.9 Implement patrol schedule to ensure post-burn security according to planned burn requirements 2.10 Keep records according to workplace and legislative requirements
3. Conduct post-burn activities	3.1 Conduct a debrief of planned burn operations with burn team

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	3.2 Assess outcomes of planned burn 3.3 Report burn operations, outcomes and variations from planned burn conditions according to workplace procedures 3.4 Check cleaning-up activities are carried out according to workplace procedures 3.5 Confirm faulty equipment, tools and machinery are reported according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Interpret maps, specifications and other instructions from supervisor and burn plan, and consolidate information to determine burn requirements
Writing	Accurately record information for planned burn activities using clear language, organisational formats and industry terminology
Oral communication	- Communicate effectively to convey and clarify information from supervisor to work crew for planned burn activities - Interact with team using radio or digital communication equipment

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHC FIR301 Undertake burning for fuel, ecological and cultural resource management	Not applicable	The unit has been created to address an emerging skill or task required by industry	Newly created

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHC FIR301 Undertake burning for fuel, ecological and cultural resource management

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has, on at least two occasions, coordinated a burn team and implemented a burn according to conditions specified in burn plan.

There must also be evidence that the individual has:

- maintained communication with burn team, stakeholders and burn supervisor throughout the burn
- interpreted burn requirements, including identified conditions and ensured compliance with workplace, legislative and regulatory requirements
- identified and assembled resources with burn team
- coordinated burn-day logistics
- monitored weather conditions and notified supervisor of changed conditions for decision
- recorded weather conditions and burn activities according to workplace requirements
- coordinated on-ground burning activities
- coordinated mop-up and patrol activities
- cleaned, maintained, stored and reported faulty equipment and resources according to workplace procedures
- assessed and reported burn outcomes.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- burn planning and burn supervision processes
- planned burning legislation, regulation and process for applying for permits
- methods of weather forecasting, monitoring and recording
- fuel hazard assessments
- fuel conditions prior to ignition

- weather conditions prior to ignition
- topographical considerations
- go/no go decision making
- fire behaviour
- map types and use
- extinguishing media and equipment
- range of firefighting equipment and resources
- communication equipment and operating procedures
- tactics and techniques used for safe planned burning
- techniques for identification and protection of assets and values
- methods for monitoring planned burn operations
- principles and practice for mop-up and patrol
- fire ground hazards and standard techniques for managing risk
- operating procedures for planned burning relevant to the workplace
- contingency planning and emergency procedures
- workplace procedures for reporting on planned burns.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated on a fire ground during planned burning
- resources, equipment and materials:
 - fire control and mop-up tools and equipment
 - ignition devices
 - communications equipment
 - personal protective clothing and equipment
- specifications:
 - workplace policies, procedures and processes for planned burning
 - workplace instructions and planned burn requirements
 - maps and site plans
 - burn permit for site
- relationships:
 - burn team
 - supervisor/burn coordinator
 - stakeholders.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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