



**Australian Government**

# **PUAFIR407B Conduct prescribed burning**

**Revision Number: 1**

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### **Modification History**

Not applicable.

### **Unit Descriptor**

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This unit covers the competency for conducting a prescribed burn.

### **Application of the Unit**

#### **Application of the Unit**

The application of this unit in the workplace - the environments, complexities and situations involved - will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

This text will be useful for the purposes of job descriptions, recruitment advice or job analysis; where possible, it will not be too job specific to allow other industries to import it into other Training Packages, where feasible.

### **Licensing/Regulatory Information**

Not applicable.

### **Pre-Requisites**

#### **Prerequisite Unit/s**

PUAFIR303B Suppress wildfire

## Employability Skills Information

### Employability Skills

This unit contains employability skills.

## Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance Criteria describe the required performance needed to demonstrate achievement of the element.

Where bold italicised text is used, further information is detailed in the ***Required Skills and Knowledge*** and/or the ***Range Statement***. Assessment of performance is to be consistent with the Evidence Guide.

## Elements and Performance Criteria

| ELEMENT                         | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Prepare to burn              | <p>1.1 Burn plan is identified in accordance with the organisational procedures and legislative requirements</p> <p>1.2 A <i>contingency plan</i> is developed based on <i>local conditions at the time of burn</i> and communicated to all personnel</p> <p>1.3 Permits are obtained in accordance with organisational procedures</p> <p>1.4 Burn <i>notifications</i> are issued in accordance with organisational procedures</p> <p>1.5 Resource requirements are identified</p> <p>1.6 Control lines are specified and prepared in accordance with organisational procedures</p> <p>1.7 <i>Assets</i> are <i>protected</i> in accordance with organisational procedures</p> <p>1.8 <i>Weather conditions</i> are <i>monitored</i></p> |
| 2. Conduct burn                 | <p>2.1 <i>Resources</i> are gathered and deployed</p> <p>2.2 Day of burn notifications are issued</p> <p>2.3 Pre burn checks are conducted</p> <p>2.4 <i>Lighting</i> is conducted in accordance with plan or organisational procedures</p> <p>2.5 <i>Burning</i> is monitored and operational changes are made as required</p> <p>2.6 Records are kept in accordance with organisational procedures</p> <p>2.7 Burn operations are concluded</p>                                                                                                                                                                                                                                                                                         |
| 3. Conduct post burn activities | <p>3.1 Outcomes of the burn are assessed and reported</p> <p>3.2 Variations from the burn plan are reported in accordance with organisational procedures</p> <p>3.3 <i>Restoration and rehabilitation</i> is carried out in accordance with organisational requirements</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## **Required Skills and Knowledge**

### **REQUIRED SKILLS AND KNOWLEDGE**

This describes the essential skills and knowledge and their level, required for this unit.

#### **Required Skills**

- developing a prescribed burn
- conducting high and low intensity prescribed burns
- establishing control lines for prescribed burns
- developing a contingency plan
- monitoring the burn
- undertaking patrol activities

#### **Required Knowledge**

- legislative, organisational policy and procedures for conducting a prescribed burn
- types of prescribed burns
- seasonal restrictions on prescribed burns
- authorisations required for conducting a burn
- high and low intensity prescribed burns
- ignition patterns and techniques
- developing a prescription
- resource requirements
- procedures for monitoring prescribed burns and securing burn area

## **Evidence Guide**

### **EVIDENCE GUIDE**

## EVIDENCE GUIDE

### Critical aspects for assessment and evidence required to demonstrate competency in this unit

It is essential for this unit that competence is demonstrated in:

- the preparation of burn plans for a designated area
- the effective conduct of a burn, utilising the appropriate resources and record action taken
- follow up activities once the burn is completed

### Consistency in performance

Evidence should be gathered over a period of time in a range of actual or simulated workplace environments

### Context of and specific resources for assessment

#### Context of assessment

Evidence of competence may be demonstrated on the job and/or in a simulated environment

#### Specific resources for assessment

Access to a range of controlled or simulated fires  
lighting equipment

### Guidance information for assessment

Information that will assist or guide assessment will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

## Range Statement

### RANGE STATEMENT

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording in the Performance Criteria is detailed below.

|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Assets to be protected</b>                                     | <ul style="list-style-type: none"> <li>buildings</li> <li>historic relics</li> <li>camp or recreational areas</li> <li>utilities (power and telephone lines, water supply structures, communications towers)</li> <li>research plots, reference areas</li> <li>area of rare or sensitive flora and fauna</li> <li>crops</li> <li>plantations</li> <li>other property</li> </ul> |
| <b>Notifications may be given to persons or organisations who</b> | <ul style="list-style-type: none"> <li>have an interest in the area to be burned</li> <li>have an interest in adjacent land to which a burn could spread</li> <li>have an interest in managing the consequences of a burn</li> <li>have an interest in specific assets</li> <li>may be concerned by evidence of a burn</li> </ul>                                               |
| <b>Notification plans are required for</b>                        | <ul style="list-style-type: none"> <li>private land</li> <li>public land</li> </ul>                                                                                                                                                                                                                                                                                             |
| <b>Weather conditions to be monitored</b>                         | <ul style="list-style-type: none"> <li>temperature, relative humidity, wind, atmospheric stability</li> </ul>                                                                                                                                                                                                                                                                   |
| <b>Resources may include</b>                                      | <ul style="list-style-type: none"> <li>experienced crew for ground ignition, trained navigators, bombardiers for aerial ignition, equipment and supplies, tankers, other vehicles, equipment, back-up, logistical support</li> </ul>                                                                                                                                            |
| <b>Lighting techniques and patterns may include</b>               | <ul style="list-style-type: none"> <li>ignition method</li> <li>lighting pattern</li> <li>ignition spacing</li> </ul>                                                                                                                                                                                                                                                           |
| <b>Burn operations may</b>                                        | <ul style="list-style-type: none"> <li>low intensity burns</li> </ul>                                                                                                                                                                                                                                                                                                           |

**RANGE STATEMENT****include**

high intensity burns

**Monitoring of burning may include**

observations  
 predictions  
 recording  
 fuel moisture content  
 wind speed and direction  
 flame height  
 rate of spread  
 smoke development

**Conclusion of burning operations**

patrol or burn area  
 mop up  
 black out

**Contingency plans for escapes include**

reasons for escape  
 special resources/secondary control lines  
 command structure

**Local conditions at time of burn may include**

wind strength and direction  
 temperature  
 changes in conditions  
 anticipated changes

**Restoration and rehabilitation may be required for**

control lines  
 vehicle tracks  
 areas disturbed by tracked machinery  
 revegetating damaged areas  
 repairing fences

**Unit Sector(s)**

Not applicable.



## **Corequisite Unit/s**

**Co-requisite Unit/s**                      Nil