

Oregon Certified Burn Manager Training Student Workbook

Day 1

Why we burn

List 4 or more potential benefits from prescribed fire.

Types of prescribed burns

The different burn types include:

- 1) _____
- 2) _____
- 3) _____

Why we plan

List 3 reasons for burn planning:

- 1) _____
- 2) _____
- 3) _____

The CBM program, legal basis, and permitting

What are the key roles & responsibilities of a CBM?

Who is responsible for issuance of CBM certification books and cards?

Who advises on the administration of the CBM program including revocation of certification?

What is the purpose of OAR 629-042-1000 to OAR 629-042-1070?

Which two persons are responsible for ensuring the necessary prescribed fire permits, waivers, and agreements are in place?

When a CBM needs to leave a burn before it has concluded, to whom can they transfer responsibility?

The _____ or another _____.

How must the transfer of responsibility be documented?

When must ODF be notified of the transfer of responsibility?

Landowner goals & objectives

Goals are _____ statements of intent.

Objectives in a burn plan should be SMART. What does this stand for?

S _____, M _____, A _____,

R _____, and T _____+.

Values at risk

What are values at risk? _____

Why should they be identified in the burn plan?

Identifying risk and risk management strategies

What are some common risks to prescribed burn personnel?

How can you mitigate those personnel risks?

What can be done to reduce risk to other values (things in your burn unit to beyond it)?

Control line options

List pros and cons for each of the following types of control lines

Handline

Pros: _____

Cons: _____

Machine line

Pros: _____

Cons: _____

Mowed line

Pros: _____

Cons: _____

Blackline

Pros: _____

Cons: _____

Wetline

Pros: _____

Cons: _____

Day 2

Fuel load estimation

Where can you find instructions and forms for the Simple Fuel Load Estimation process?

What tools do you need to implement the Simple Fuel Load Estimation process?

Pre-burn descriptions & maps

What information should be included in a pre-burn description?

Why do you need information for both inside and outside the burn unit?

At a minimum, a CBMs burn plan should have a _____ map and a _____ map.

What features or reference points should be noted on your burn plan maps?

On-site weather monitoring

Where should on-site weather measurements be taken?

When should you begin monitoring weather on the day of the burn?

How often are weather readings typically collected and reported on a prescribed burn?

When would it be appropriate to stop collecting weather measurements on a burn day?

Firing

Define each of the following firing patterns:

Strip _____

Ring _____

Dot _____

Chevron _____

Concentric _____

Generally, increasing spacing between strips _____ flame length.

Holding

What are some common holding resources that you might find at work on an agency administered prescribed fire?

What are some “non-typed” resources that you might find in use on a non-agency administered private land burn, and how do they compare to the “typed” resources?

What factors or situations should influence your plans for holding resources?

What are the major considerations for determining the contingency resources required for your burn?

Pile burning

Describe the characteristics of a well-constructed slash pile?

What are the benefits of covering slash piles?

What material does Oregon statute recognize as the appropriate material for covering slash piles?

Obtaining weather forecasts

How can a SPOT weather forecast guide a prescribed burn?

How can a 7-day weather forecast inform planning for a prescribed burn?

The weather forecast says conditions will be within prescription in the morning, but that a front will move across the burn unit around noon bringing increased winds and a change in wind direction. Should we still burn that day?

DAY 3

Smoke

The federal _____ Act requires states to manage air pollution, including smoke from prescribed burns.

What levels of government are required to implement and enforce the Act's regulations?

_____ and _____

What agency oversees clean air requirements in Oregon?

_____ of _____

What Oregon agency has been delegated authority and responsibility for smoke management on the majority of the state's forestlands? _____ of _____

What are the differences in requirements for Level 1 and Level 2 regulated areas?

Requirement	Level 1	Level 2
Burn registration required?		
How many days in advance must burn be registered?		
Is compliance with smoke management forecast instructions required?		
Is there a fee?		
Is reporting required?		

Smoke registration and smoke forecasts

Where can you find Oregon smoke management forecasts, forms, and data collection resources?

Oregon smoke management forecasts are issued at what time? _____

What data needs to be collected at the burn unit in order to complete the smoke management registration and report?

Before the burn: _____

After the burn: _____

Contingency plans and wildfire declaration

When should you activate or request contingency resources?

What determines the necessity to declare a wildfire?

If a wildfire is declared, who is in charge of it and what role does the CBM have?

Notifications and landowner/public communications

Who is responsible for making a bona fide attempt to notify adjacent landowners of prescribed fire plans? _____

What is the maximum number of days in advance that notification can be made? _____

What must be offered to those adjacent landowners? _____

Burn organization

What are the three primary leadership roles utilized in most prescribed burns?

1) _____

2) _____

3) _____

What additional role helps provide information on fire behavior during the burn?

Medical and safety

What three things should be included in the "Safety, Medical, and Emergency Plan" section of the burn plan.

1) _____

2) _____

3) _____

The incident-within-incident protocol is utilized when a _____ emergency occurs during a burn. It provides for _____ of the _____ emergency while the burn leader (CBM) remains focused on the prescribed fire.

Sand Table Exercises

What is the purpose of the pre- and post-burn checklist?

What are three options for communicating with personnel on the prescribed burn?

- 1) _____
- 2) _____
- 3) _____

How should you determine how best to communicate with your local Oregon Department of Forestry office regarding your prescribed fire?

What should be included in a briefing for prescribed burn personnel?

What factors should be considered when choosing a test burn location?

What are some examples of times or situations when firing and holding need close coordination?

Provide at least three examples of situations that would be considered critical holding points **and** describe appropriate mitigations.

When and how should a wildfire be declared?

List the elements of an effective after-action review.

List key considerations for the demobilization process.

List key logistical considerations for prescribed burns.

Prescription development

What parameters are commonly included in prescribed fire prescriptions?

What considerations influence the development of a prescription?

What are the implications of burning on the low intensity end of the prescription?

What are the implications of burning on the high intensity end of the prescription?

Some prescription parameters that mark the typical maximum or minimum levels common in Oregon burn plans, beyond which conditions would likely be problematic, include:

Maximum temperature above _____ degrees F

Minimum RH below _____ %

Minimum FDFM below _____ %

Maximum eye-level wind speed above _____ mph

Minimum eye-level wind speed below _____ mph

What dictates the range of allowable wind directions in the burn plan prescription:

Day 4

Mop-up and patrol

What factors influence mop-up specifications on a prescribed burn?

Outline a typical patrol plan, identifying when it starts, how often it occurs, and when it ends.

Under what circumstances can you declare your burn out (three options)

Post burn follow-up

What documentation is the CBM or landowner required to submit to ODF following a prescribed burn conducted on ODF-protected lands?

What documentation should CBMs retain in their own records?

Burn plan evaluation

What are your key takeaways from this exercise?
