Modification history

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 7.0.

FWPFGM2XXX	Detect fire in a native forest or plantation
Application	This unit of competency describes the skills and knowledge required to safely and accurately detect fires in a native forest or plantation setting and accurately record and report sighting details to fire command or control. This work may be performed on the ground, from a fire tower or from an aircraft. The unit applies to forestry workers engaged in field operations in a native forest or plantation setting. All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace. No licensing, legislative or certification requirements apply to this unit at the time of publication.
Prerequisite Unit	Nil
Unit Sector	Forest Growing and Management (FGM)

Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Locate position of self and fire	1.1 Follow workplace health and safety procedures relevant to detecting fire 1.2 Identify, assess and take actions to mitigate risks and hazards in the operating environment 1.3 Identify own position in the field and position of fire using digital device or reference points including landmarks and key geographical features 1.4 Locate current position of fire on a print or digital map or plan
2. Report and record smoke and other sightings	2.1 Note and report information on the colour, location and amount of smoke and other sighting details according to workplace procedures 2.2 Record sighting details including locations, bearings and estimated distances according to workplace procedures 2.3 Maintain chronological log of sightings and fire weather data according to workplace procedures 2.4 Identify situations requiring specialist advice and seek assistance as required according to workplace procedures
3. Communicate with fire command or control	3.1 Use mobile and other communications equipment to relay location of own position and sighting details to fire command or control 3.2 Record and report relevant fire weather data and other information on conditions using required conventions and formats to appropriate personnel 3.3 Record and report fire detecting processes and outcomes to appropriate personnel

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	• Identify features and details on maps and plans
Writing	• Record accurate and detailed information about smoke and other sightings in logs, reports and records

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
Oral communication	• Use appropriate communication methods, equipment and interpersonal techniques to communicate with fire command or control
Numeracy	• Estimate speed and bearing of fire

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPFGM2XXX Detect fire in a native forest or plantation	FWPFGM2211 Detect fires	Reworded title Updated Application Reworded Performance Criteria Updated Performance Knowledge Evidence Updated Foundation Skills and Assessment Conditions	Equivalent

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47

TITLE	**Assessment requirements for FWPFGM2XXX Detect fire in a native forest or plantation**

Performance Evidence

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

There must be evidence that, on one occasion, the individual has:
- located and identified on a digital or print map or plan the current position of a fire
- noted and reported sighting details, including locations, bearings and estimated distances, in the required formats and conventions
- maintained a chronological log of sightings and fire weather data
- completed one report on fire detecting processes and outcomes according to workplace requirements.

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:
- smoke
  - meaning of colour
  - location
  - amount
- fire weather data
  - wind
  - atmospheric humidity
  - temperature
  - procedures for measuring and recording fire weather data
- maps and plans
  - digital and print
  - scale used on maps and plans
  - map and plan reading techniques
  - map and plan features
- types and operating procedures and protocols for mobile and other communications systems
- risks and hazards associated with fire detection activities
- sighting details
  - locations
  - bearings
  - estimated distances
- terrain and geographical features visible from a tower or aircraft
- sources of specialist advice on fire and fire detection in forest and plantations
  - supervisor
  - fire command or control
  - colleague
  - local fire brigade
  - forest management company
- fire command or control conventions for recording and reporting fire sightings
- workplace policies and procedures specific to detecting fires:
  - communication reporting lines
  - recording and reporting fires
  - emergency and evacuation
  - extreme weather.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:
- physical conditions:
  - skills must be demonstrated in forest or wood products work environment or an environment that accurately represents workplace conditions

Assessment Conditions

• resources, equipment and materials:
    • digital or print maps and plans of forest or plantation
    • mobile and other communications equipment suitable for communicating with fire command or control
    • access to fire weather data and current reports
• specifications:
    • access to workplace health, safety and environmental policies and procedures applicable to fire detection operations
    • access to user manual for mobile and other communications equipment
    • access to workplace procedures for field operations and for recording and reporting on fire detection processes and outcomes.
 	
Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47