Modification history

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

FWPCOT2XXX	Navigate in forest areas
Application	This unit of competency describes the skills and knowledge required to navigate in forest areas in situations where difficult environmental conditions and poor visibility are likely to occur. The unit applies to individuals who may be required to navigate in forest areas as part of forestry operations. 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) Harvesting and Haulage (HAR)

Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Prepare for navigation	1.1 Determine job requirements from work order or instruction, and where required, seek clarification from appropriate personnel 1.2 Review workplace health and safety procedures applying to navigation in forest areas 1.3 Identify, assess and take actions to mitigate risks and hazards associated with navigating in forest areas 1.4 Identify emergency and evacuation procedures to follow in the event of an emergency 1.5 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.6 Select suitable maps, charts and imagery, global positioning system (GPS) equipment and navigation aids and check for accuracy, currency and operational effectiveness. 1.7 Detect and correct faults or errors in maps and equipment
2. Plan the route	2.1 Plan route according to workplace procedures 2.2 Examine maps to identify relevant symbols, geographical information and navigation data 2.3 Plan optimum route according to time and safety considerations. 2.4 Plan emergency exit routes and other contingency measures to mitigate expected and unforeseen risks. 2.5 Identify limitations in planning and seek assistance from appropriate personnel 2.6 Confirm planned route and schedule and provide copy to appropriate personnel

Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
3. Navigate the route	3.1 Navigate to and from destination according to planned route and schedule 3.2 Use GPS and other navigation equipment according to manufacturer instructions throughout journey 3.3 Orientate maps to surroundings and utilise compass and environmental navigation aids to assist 3.4 Navigate alternative routes to bypass obstacles and improve efficiency of route 3.5 Navigate routes and courses to minimise impact on the environment 3.6 Record and report navigation activities 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	• Read text on maps, charts and GPS equipment
Writing	• Use routine text and technical terms in written reports
Oral Communication	• Ask questions to clarify navigational requirements
Numeracy	• Estimate and calculate travel time and distances

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT2XXX Navigate in forest areas	FWPCOT2233 Navigate in forest areas	Updated Application Minor updates to Performance Criteria Minor wording changes to Performance and 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 FWPCOT2XXX Navigate in forest areas**

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 planned and conducted one navigation activity in a forest area and during this activity:
- followed workplace policies and procedures for navigating in forest areas
- planned according to work instructions, destination and timeline
- used navigation equipment to plan route which must be selected from:
  - compass
  - global positioning system (GPS)
  - cadastral maps (maps that show the boundaries and ownership of land parcels)
  - topographic maps
  - photographs and other digital imagery
- used a compass and environmental navigation aids enroute to navigate to and from destinations according to the planned route using latitude/longitude and Universal Transverse Mercator coordinate systems
- established and maintained communication with others as required
- responded to environmental circumstances enroute and adapted by navigating alternative routes.

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:
- environmental protection practices for minimising damage to the local environment when navigating in forest areas
- purpose, features and operation of navigation equipment and aids, including:
  - compass
  - global positioning system (GPS)
  - cadastral maps (maps that show the boundaries and ownership of land parcels)
  - topographic maps
  - photographs and other digital imagery
- advantages and disadvantages of different map and chart types and sources of error
- representation of topographic features and symbols on maps and charts
- common scales used on maps and plans
- techniques for calculating and estimating distances and times within a particular activity context
- features and uses of environmental navigation aids:
- survey markers
- track markers
- signs
- arrows
- natural landmarks
- personal protective equipment and clothing
- modes and methods of communication with others
- workplace health and safety procedures for navigation activities.

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 a forest or wood products work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - forest area to navigate
  - navigation equipment and resources
  - communication devices appropriate for use in remote or trackless areas

Assessment Conditions

• specifications:
    • access to workplace health, safety and environmental policies and procedures applicable to navigation task
    • access to workplace procedures related to navigation in forest areas.
 	
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