



Australian Government

FWPCOT2233 Navigate in forest areas

Release: 1

FWPCOT2233 Navigate in forest areas

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT2233B Navigate in forest areas, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit describes the outcomes required to navigate in forest areas in situations where difficult environmental conditions and poor visibility are likely to occur. The unit includes interpretation and use of maps and other navigation aids.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Forest Growing and Management

Harvesting and Haulage

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. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for navigation	1.1 Identify assignment instructions, destination and relevant information about geographical factors and likely weather conditions enroute. 1.2 Select and check maps and navigation equipment for accuracy, currency and operational effectiveness.

ELEMENTS	PERFORMANCE CRITERIA
	1.3 Detect and correct faults or errors in maps and equipment 1.4 Establish and maintain communication with others in line with WHS and organisational requirements
2. Plan the route	2.1 Plan route according to assignment instructions and organisational safety 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 alternate routes to allow for contingencies and emergency exit routes. 2.5 Identify limitations in planning and seek assistance from appropriate personnel.
3. Navigate the route	3.1 Navigate to and from destination according to planned route and schedule. 3.2 Use navigation equipment, in line with manufacturer's 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.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	interpret numerical data and symbols on maps and navigation equipment to complete calculations involving route time, terrain and distances.
Oral communication skills to:	ask questions and actively listen to clarify assistance with difficult navigation issues.
Reading skills to:	- interpret: - workplace health and safety procedures - assignment instructions

	• manufacturers' instructions • text on maps and electronic navigation equipment.
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Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT2233B Navigate in forest areas

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPCOT2233 Navigate in forest areas

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT2233B Navigate in forest areas, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including 'Required Skills and Knowledge, Evidence Guide and Range Statement

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- plan routes in line with an individual assignment instructions, destination and timeline
- use navigation equipment when planning routes:
 - standard magnetic compass using latitude/longitude and Universal Transverse Mercator (UTM) coordinate systems
 - global positioning system (GPS)
 - cadastral maps (maps that show the boundaries and ownership of land parcels)
 - topographic maps
 - photographs
 - general maps
- use 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 (UTM) coordinate systems
- establish and maintain communication with others as required
- respond to environmental circumstances enroute and adapt by navigating alternative routes.
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Knowledge Evidence

A person competent in this unit must be able to demonstrate 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:
 - global positioning system (GPS) device
 - magnetic compass, including adjustments for local magnetic variation
 - locator beacons
 - cadastral and topographic maps
 - charts
 - guide books
 - photographs and other digital imagery
 - sketches
 - diagrams
- 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 estimating distances and times using electronic navigation equipment and maps
- 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
- organisational workplace health and safety procedures for navigation activities.
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Assessment Conditions

The following resources must be made available:

- cadastral, topographic and general maps
- magnetic compass
- global positioning system (GPS) device
- track and survey markers
- beacons
- manufacturers' instruction for navigation equipment use
- personal protective equipment required to navigate in forest areas
- communication devices

- assignment instructions with specific information on destinations and deadlines
- organisational workplace health and safety procedures for navigation activities
- relevant personnel for the purposes of communicating information.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

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