



Australian Government

FWPFGM2215 Measure trees

Release: 1

FWPFGM2215 Measure trees

Modification History

Release	Comment
1	Replaces superseded equivalent FPIFGM2215B Measure trees, first released with FPI11 Forest and Forest Products Training Package Version 2.2.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 of competency describes the outcomes required to measure trees, record tree measurement data and identify tree abnormalities.

The unit applies to measuring trees in a forest environment.

The unit applies to Forestry worker, Arboriculture worker, Farm forestry worker, Nursery worker, Plantation establishment worker, Plantation forest officer, Silviculturist

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

Elements and 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. Identify tree measuring requirements	1.1 Interpret and check work order, as required with appropriate personnel 1.2 Select tools appropriate to work requirements and check for operational effectiveness in line with manufacturer recommendations 1.3 Establish and maintain communication with colleagues and

	others in line with WHS requirements..
2. Measure and record tree measurements and abnormalities	2.1 Undertake work by using established safe operating practices in line with site procedures and environmental requirements 2.2 Select, use and maintain suitable personal protective equipment and clothing 2.3 Identify site environmental concerns in line with relevant regulations and workplace requirements 2.4 Identify from the work order the forest area to be worked within and locate on the ground 2.5 Obtain, check and record accurately tree measurements in the appropriate style and format in line with organisational and environmental requirements 2.6 Identify, assess and record tree abnormalities in line with workplace procedures.

Foundation Skills

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

Learning skills to:	review own skills in relation to assessing abnormalities in trees
Numeracy skills to:	- use mathematical techniques to calculate stand height and measure dimension and volume in relation to trees - identify, estimate and measure common angles and shapes when measuring trees
Oral communication skills to:	select and use appropriate spoken communication strategies with work colleagues and other personnel when measuring and assessing trees
Reading skills to:	interpret instructions which combine pictorial and written information on equipment, site plans and in workplace manuals when measuring and assessing trees
Writing skills to:	record accurately and legibly tree measurements and factual information about tree abnormalities
Problem solving skills to:	identify problems and equipment faults when measuring trees and demonstrate appropriate response procedures

Range of Conditions

Not Applicable

Unit Mapping Information

FPIFGM2215B Measure trees

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 FWPFGM2215 Measure trees

Modification History

Release	Comment
1	Replaces equivalent unit FPIFGM2215B Measure trees, 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:

- on native or plantation trees, carry out tree measuring procedures without causing damage to tree, environment, equipment or personnel and including:
 - calculating stand height in line with sampling technique
 - measuring log volume and length
 - diameter and girth (over or under bark at breast height or ground level)
 - classifying stem form or crown class
 - identify and follow applicable commonwealth, state or territory legislative and regulatory requirements and codes of practice relevant to measuring trees
- identify tree form and abnormalities, including:
 - butt swell
 - double leaders
 - heavy branching
 - ramicorns
- use and maintain appropriate measuring tools including:
 - diameter tapes
 - length tapes
 - optical wedges
 - clinometers
- locate forest or plot area from map or plan
- communicate effectively and work safely with others

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Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- tree measuring techniques, including relevant mathematical calculations and basic trigonometry including:
 - tolerances, allowances, calibration requirements and special procedures
 - tree diameter and girth (over or under bark at breast height or ground level)
 - tree height
 - log length
- organisational and site standards, requirements, policies and procedures for measuring trees
- environmental risks and hazards
- species and characteristics of vegetation to be measured, including plantation and native forest trees
- tree abnormalities including:
 - butt swell
 - double leaders
 - heavy branching
 - ramicorns
- types of measuring tools, and procedures for their safe use and maintenance, including:
 - diameter tapes
 - length tapes
 - optical wedges
 - clinometers
- established communication channels and protocols
- problem identification and resolution strategies, and common fault finding techniques
- procedures for recording and reporting workplace information

Assessment Conditions

The following resources must be made available:

- workplace location or simulated workplace that includes plantation or native forest trees
- materials and equipment relevant to undertaking work applicable to this unit including:
 - diameter tapes
 - length tapes
 - optical wedges
 - clinometers
- specifications and work instructions
- 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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