



Australian Government

Assessment Requirements for FWPSIL2005 Measure trees

Release: 1

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Modification History

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

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 measured, identified any abnormalities and recorded data on tree measurements, characteristics and abnormalities for five trees selected from one of the following types of trees:

- native trees
- plantation trees.

In undertaking this activity, the individual has:

- carried out the following tree measurements on five native or five plantation trees without causing damage to tree, environment, equipment or personnel:
 - stand height
 - log volume and length
 - diameter and girth (over or under bark at breast height or ground level)
- classified the stem form or crown class of five native or five plantation trees
- identified tree abnormalities in five native or five plantation trees, including:
 - butt swell
 - double leaders
 - heavy branching
 - ramiforms
- used and maintained appropriate measuring tools, including:
 - diameter tapes
 - length tapes
 - optical wedges
 - clinometers
 - digital measuring equipment
- recorded data on tree measurements, characteristics and abnormalities for five native or five plantation trees

- complied with environmental and safety standards, including use of personal protective equipment (PPE).

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:

- purpose of measuring trees
- units of measurements used in tree measurements
- 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 volume and length
- workplace procedures for measuring trees
- environmental risks and hazards associated with tree measurement
- 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
 - digital measuring equipment
- established communication channels and protocols
- procedures for recording and reporting tree measurements and abnormalities.

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 work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - forest or plot area

- tools, equipment and materials used to measure trees
- PPE used in measuring trees
- specifications:
 - map or plan containing trees to be measured
 - workplace health, safety and environmental policies and procedures applicable to measuring trees
 - workplace procedures for measuring trees.

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>