



Australian Government

FWPHAR4207 Conduct a wood volume and yield assessment

Release: 1

FWPHAR4207 Conduct a wood volume and yield assessment

Modification History

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

Application

This unit of competency describes the skills and knowledge required to plan and implement a wood volume and yield assessment within a forest area.

The unit applies to individuals involved in conducting wood volume and yield assessment 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, regulatory or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Harvesting and Haulage (HAR)

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.</i>
1. Plan wood volume and yield assessment	1.1 Determine required frequency and size of sample areas of assessment for particular forest area from inventory programs, budgets and workplace guidelines 1.2 Research methods to calculate wood volume and yield for the location to be assessed 1.3 Select method and equipment required to calculate wood volume

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	and yield with reference to the forest management plan 1.4 Monitor site environmental protection measures 1.5 Document plan to assess volume and wood yield
2. Implement wood volume and yield assessment	2.1 Negotiate schedule for the assessment with other forest personnel 2.2 Coordinate people, materials and equipment for the assessment 2.3 Obtain permits or licences required for the assessment 2.4 Direct personnel in data collection on wood volume and yield 2.5 Ensure compliance with quality and workplace health and safety procedures throughout the assessment 2.6 Collate and analyse data according to workplace procedures 2.7 Record and report wood volume and yield assessment results
3. Review wood volume and yield assessment	3.1 Review assessment procedures for potential improvements 3.2 Report outcomes of review 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	Extract information from industry guides and standard references
Writing	- Complete workplace forms - Annotate site plans
Oral communication	Ask open and closed questions and use active listening techniques to clarify contents of work orders
Numeracy	Interpret graphical and statistical information on wood volume and yield

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPHAR4207 Conduct a wood volume and yield assessment	FWPFGM4206 Conduct a wood volume and yield assessment	Updated Elements and Performance Criteria Revised Performance Evidence 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>

Assessment Requirements for FWP HAR4207 Conduct a wood volume and yield assessment

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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, for a sample area, planned, implemented, reported on and reviewed one wood volume and yield assessment that includes:

- timber volume by class sizes
- timber quality
- timber damage
- form and rates of growth.

In undertaking this activity, the individual has:

- determined the sample area for the assessment
- documented a plan to assess wood volume and yield for the sample area
- negotiated a schedule for the assessment with other forest personnel
- coordinated personnel and resources for the assessment and obtained permits
- directed data collection activities
- ensured compliance with quality, workplace health and safety and environment protection procedures throughout the assessment
- accurately and safely calculated wood volume and yield from the sample area
- recorded and reported wood volume and yield assessment results
- reviewed assessment procedures for potential improvements.

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:

- workplace policies and procedures for conducting a wood volume and yield assessment
- volumes and yields associated with different species that includes:
 - quantity (gross volume) of timber per hectare
 - estimated yield (net volume) of useable timber per hectare

- assessment techniques and methods for measuring and calculating wood volume and yield equipment for conducting a wood volume and yield assessment.

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:
 - an area of forest in which to conduct a wood volume and yield assessment
 - equipment for conducting a wood volume and yield assessment
- specifications:
 - work instructions for conducting a wood volume and yield assessment
 - workplace safety and environmental policies and procedures applicable to forestry operations
 - workplace procedures for conducting a wood volume and yield assessment.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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