



Australian Government

FWPFRM5003 Contribute to and implement a forest inventory program

Release: 1

FWPFRM5003 Contribute to and implement a forest inventory program

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 contribute to the planning and management of forest assessments based on an inventory program.

The unit applies to individuals who contribute to the planning and management of forest assessments.

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.

Pre-requisite Unit

Nil

Unit Sector

Forest Resource Management (FRM)

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 inventory program	1.1 Analyse requirements for an inventory program 1.2 Review site factors impacting on forest inventory program 1.3 Confirm timeline and budget for inventory program 1.4 Review workplace plans to check impact on tree breeding

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	operation 1.5 Determine sampling techniques, methods of measurement and frequency of inventory assessment 1.6 Consult with colleagues and stakeholders and obtain input to inventory program 1.7 Liaise with and seek support from senior personnel during preparation of draft inventory program, as required 1.8 Document draft inventory program according to workplace procedures 1.9 Communicate draft inventory program and performance indicators to appropriate personnel and confirm further actions
2. Implement inventory program	2.1 Operationalise inventory program according to planned methods, schedule, budget and legislative requirements 2.2 Coordinate required resources and authorisations 2.3 Communicate schedule for inventory assessment to coordinating personnel 2.4 Maintain documentation for all stages of inventory program
3. Monitor inventory assessment	3.1 Identify monitoring points and collect information and data 3.2 Check inventory assessment for compliance with environmental, safety, workplace and legislative requirements 3.3 Amend or revise inventory program and assessment processes to ensure specifications, quality and performance targets are met
4. Review inventory assessment	4.1 Review outcomes of inventory assessment against inventory program and workplace requirements 4.2 Analyse information and data to determine effectiveness of inventory assessment and potential improvements to future inventory program 4.3 Make recommendations for future inventory programs based on analysis of data and information 4.4 Record and report on outcomes of inventory program 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	Interpret written regulatory and environmental information affecting forest inventory plans
Writing	Prepare complex written documents, including detailed approval applications for forest inventory plans
Oral communication	Use verbal and non-verbal communication and active listening skills to communicate with contractors and resolve issues associated with implementation of forest inventory plans
Numeracy	Perform calculations and conversions used in forest inventory assessment forest including wood volume and yield

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPFRM5003 Contribute to and implement a forest inventory program	FWPFGM5201 Plan and manage an inventory program	Redesigned unit that includes content from FWPFGM5201 Plan and manage an inventory program, and FWPFGM6203 Manage sustainable tree inventory	Not equivalent
FWPFRM5003 Contribute to and implement a forest inventory program	FWPFGM6203 Manage sustainable tree inventory	Redesigned unit that includes content from FWPFGM5201 Plan and manage an inventory program, and FWPFGM6203 Manage sustainable tree inventory	Not 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 FWPFRM5003 Contribute to and implement a forest inventory program

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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, under the supervision of a senior forester, the individual has planned, implemented and assessed one forest inventory program.

In undertaking this activity, the individual has:

- followed workplace policies and procedures relevant to planning and managing an inventory program
- planned and implemented an inventory assessment process that involves:
 - calculating the current and expected wood volume and yield within a forest, or
 - establishing a monitoring process to enable reporting against marketing, strategic and business plans
- implemented an inventory program in line with documented plan and budget and making adjustments to plan or program
- selected sampling techniques and created sampling designs
- reviewed inventory program and used findings to document improvements to future assessments
- prepared and presented a detailed report, including costs, processes and analysis of findings of the program.

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:

- requirements for an inventory program
- site factors impacting on forest inventory programs
- timeline and budget for inventory program
- sampling techniques, methods of measurement and frequency of inventory assessment
- stakeholder consultation techniques

- structure and format of inventory program and performance indicators
- resources and authorisations required for inventory programs
- monitoring processes for reporting against marketing, strategic and business plans
- monitoring procedures for compliance with environmental, safety, workplace and legislative requirements
- procedures for recording and reporting workplace information.

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:
 - computing hardware and software for documenting forest inventory program
 - reference materials for data, images, geographic and topographic information, maps and diagrams relating to inventory assessments
- specifications:
 - requirements for a forest inventory program
 - workplace standards, policies and procedures for forest inventory planning
 - workplace safety and environmental policies and procedures applicable to forestry operations.

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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