



Australian Government

FWPSIL4005 Plan for and coordinate a stand health and nutrition program

Release: 1

FWPSIL4005 Plan for and coordinate a stand health and nutrition 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 plan and monitor the health and nutrition of a stand of trees.

The unit applies to individuals whose work involves managing the health and nutrition of trees in a forest.

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

Silviculture (SIL)

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 stand health and nutrition program	1.1 Review stand health and nutrition requirements and site environmental protection measures and regulations 1.2 Obtain and analyse information that will impact on stand health and nutrition planning

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Select methods of ensuring stand health and maintaining the appropriate level of stand nutrition 1.4 Develop and document performance indicators and targets for stand health and nutrition 1.5 Obtain required approvals from relevant authorities 1.6 Document and communicate stand health and nutrition program to appropriate personnel
2. Implement and monitor stand health and nutrition program	2.1 Communicate stand health and nutrition program to operational staff 2.2 Coordinate resources required for implementation of the stand health and nutrition program 2.3 Monitor the implementation of the stand health and nutrition program and make necessary adjustments 2.4 Identify problems with stand health and nutrition, including nutritional deficiencies in target species, and recommend suitable remedial strategies 2.5 Ensure compliance with workplace procedures and safety and environment protection requirements 2.6 Identify and control potential and existing risks and hazards in the work area 2.7 Respond to matters that impact or are likely to impact on stand health and nutrition
3. Review outcomes of stand health and nutrition program	3.1 Collect data on stand health and nutrition, and review effectiveness of activities 3.2 Analyse budgets and cost-effectiveness of stand health and nutrition program 3.3 Document outcomes of the stand health and nutrition program against established performance indicators, and report to relevant 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 familiar and detailed workplace policies and procedures and complex documents
Writing	Produce detailed reports on the outcomes of activities directed at improving stand health and nutrition
Oral communication	Ask open and closed questions and use active listening techniques to gather information related to the monitoring of stand health and nutrition
Numeracy	Interpret complex numerical data relating to stand health and nutrition

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSIL4005 Plan for and coordinate a stand health and nutrition program	FWPFGM5211 Coordinate stand nutrition	Redesigned unit that includes content from FWPFGM5211 Coordinate stand nutrition, and FWPFGM4202 Manage stand health	Not equivalent
FWPSIL4005 Plan for and coordinate a stand health and nutrition program	FWPFGM4202 Manage stand health	Redesigned unit that includes content from FWPFGM5211 Coordinate stand nutrition, and FWPFGM4202 Manage stand health	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 FWPSIL4005 Plan for and coordinate a stand health and nutrition 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 the individual has planned, coordinated the implementation and reviewed and reported on the outcomes of one stand health and nutrition program.

In undertaking this activity, the individual has:

- developed and implemented a stand health and nutrition program that includes:
 - relevant policies and procedures
 - budgets
 - timelines
 - resources (people, materials, equipment)
 - activities and tasks
 - performance indicators
- followed workplace policies and procedures for managing the health and nutrition of one stand of trees
- monitored the implementation of the stand health and nutrition program
- identified problems with stand health and nutrition, including nutritional deficiencies in target species, and recommended suitable remedial strategies
- ensured compliance with workplace procedures and safety and environment protection requirements
- reviewed and reported on the outcomes of the stand health and nutrition 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:

- stand health and nutrition requirements, indicators and treatment of the target species, including:
 - stress problems

- pests and diseases, including insects, fungal, bacterial, viral, birds and animals
- structural
- storm damage
- root damage
- gassing
- compaction
- incineration
- nutritional deficiencies in target species, and remedial strategies
- chemical
- competition
- poor draining
- vandalism
- salt
- drought
- procedures for identifying and evaluating structural defects in trees
- methods to identify pests, diseases and physiological damage to trees
- methods to manage tree pests and diseases
- methods of collecting and storing specimens for identification
- methods to improve stand health, including:
 - application of fertilisers
 - application of pesticides and herbicides
 - pruning techniques
 - competition management techniques
 - browsing control techniques
- environmental protection requirements for the site or setting
- relevant approvals, including where:
 - the use of chemicals or biological agents is intended
 - browsing control techniques may impact on neighbouring properties
 - consideration of environmental sustainability issues apply
- workplace health and safety policies and procedures
- budgets and planning tools.

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:
 - a forest area to implement stand health and nutrition program

- specifications:
 - workplace safety and environmental policies and procedures applicable to forestry operations
 - workplace policies and procedures relevant to planning and coordinating stand health and nutrition.

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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