



Australian Government

Department of Education, Employment and Workplace Relations

FPIFGM5214A Develop a native forest regeneration plan

Release: 1

FPIFGM5214A Develop a native forest regeneration plan

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to plan and implement the regeneration or revegetation of an area of native forest for timber production. It includes conducting consultative processes and evaluation of the effectiveness of the regeneration plan against organisational marketing, strategic and business objectives

Compliance with licensing, legislative, regulatory or certification requirements may be required in various jurisdictions

There may be Codes of Practice to be followed in different forest types and forest areas

This unit replaces FPIFGM5206A Develop a native forest regeneration plan

Application of the Unit

Application of the unit

This unit involves developing a native forest regeneration plan in a forest environment

The skills and knowledge required for competent workplace performance are to be used within the scope of the person's job and authority

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

Employability Skills Information

Employability skills This unit contains employability skills

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare regeneration plan	1.1. Applicable Occupational Health and Safety (OHS), environmental, legislative and organisational requirements relevant to native forest regeneration are identified and followed 1.2. Relevant plans and budgets are reviewed, analysed and considered for impact on regeneration planning 1.3. Method of regeneration and trees are selected in line with broad policies and site requirements 1.4. Consultative processes are used to obtain input to the plan in line with site requirements 1.5. Regeneration plan is developed, documented and communicated in line with site requirements 1.6. Necessary approvals are sought and obtained in line with site requirements
2. Implement regeneration plan	2.1. Regeneration plan is implemented in line with schedule, budget and legislative requirements 2.2. Required resources and authorisations are coordinated and obtained in line with site and legislative requirements 2.3. Schedule for site is organised in conjunction with operational personnel in line with site requirements 2.4. Communication with others is established and maintained in line with OHS and organisational requirements 2.5. Documentation is completed in a format suitable for analysis in line with OHS requirements
3. Monitor forest regeneration	3.1. Monitoring points and processes are determined and adhered to in line with site procedures 3.2. Forest regeneration is checked to ensure environmental, OHS, organisational and legislative compliance requirements are met, and documentation is completed and submitted as required 3.3. Regeneration plan and processes are amended as required to ensure performance indicators, targets and specifications are met
4. Review forest regeneration	4.1. Forest regeneration is reviewed against regeneration plan and site requirements

ELEMENT**PERFORMANCE CRITERIA**

- 4.2. **Information** and data is analysed to determine effectiveness of forest regeneration and improvements to future plans
- 4.3. Recommendations for future regeneration are prepared based on findings of analysis and consultation
- 4.4. Regeneration planning processes are **recorded and reported** to the appropriate personnel

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level required for this unit.

Required skills

- Technical skills sufficient to accurately interpret aerial photography and to accurately identify common diseases, pests and nutritional deficiencies
- Communication skills and interpersonal techniques sufficient to interact appropriately with colleagues and others in the workplace
- Literacy skills sufficient to accurately prepare a range of reports, documentation and submissions where precise meaning is required
- Numeracy skills sufficient to efficiently analyse qualitative and quantitative information and data
- Problem solving skills sufficient to demonstrate effective time and project planning and management
- Planning and organisational skills sufficient to coordinate and obtain required resources and authorisations and coordinate and schedule regeneration plans

Required knowledge

- Applicable Commonwealth, State or Territory legislation, regulations, standards, codes of practice and established safe practices relevant to the full range of processes for developing a native forest regeneration plan
- Environmental protection requirements, including the safe disposal of waste material
- Organisational and site standards, requirements, policies and procedures for developing a native forest regeneration plan
- Biology of the target species
- Hydrology and hydrological principles
- Botany, including plant identification and classification skills

REQUIRED SKILLS AND KNOWLEDGE

- Ecology and ecological interactions
- Seed collecting and distribution seasons for the target species
- Organisational marketing, business and strategic plans
- Original and potential ecosystems for the target area
- Common diseases, pests and nutritional deficiencies
- Soil types and structure
- A range of forest regeneration techniques
- Established communication channels and protocols
- Problem identification and resolution strategies and common fault finding techniques
- Types of tools and equipment and procedures for their use, operation and maintenance relevant to developing a native forest regeneration plan
- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks
- Procedures for recording workplace information

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

A person who demonstrates competency in this unit must be able to provide evidence and demonstrate that they can safely and efficiently plan, implement and review a native forest regeneration operation

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements of this unit and include demonstration of:

- following applicable Commonwealth, State or Territory legislative and regulatory requirements and codes of practice relevant to native forest regeneration and compliance with organisational policies and procedures relevant to forest regeneration
- planning a native forest regeneration operation using consultative processes with colleagues and stakeholders to determine performance criteria, specifications and targets, and ensure efficient and safe processes and timelines
- safely implementing forest regeneration activities in line with documented plan and budget, and making adjustments to the plan or operation
- reviewing and analysing operation and using findings to document improvements to future operations
- preparing a detailed report including costs, processes and analysing findings of the regeneration operation
- Competency is to be assessed in the workplace or realistically simulated workplace
- Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints
- Assessment of required knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to comply with relevant regulatory or Australian Standards requirements
- The following resources should be made available:

Context of and specific resources for assessment

EVIDENCE GUIDE

- workplace location or simulated workplace
- materials and equipment relevant to undertaking work applicable to this unit
- specifications and work instructions

Method of assessment

- Assessment must satisfy the endorsed Assessment Guidelines of the FPI11 Training Package
- Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of required knowledge
- Assessment methods applicable to this unit may include direct observation of tasks with questioning of required knowledge and the completion of projects, assignments or written tests
- Assessment methods must confirm the ability to access and correctly interpret and apply the required knowledge
- Assessment may be applied under project-related conditions (real or simulated) and require evidence of process
- Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances
- Assessment may be in conjunction with assessment of other units of competency
- The assessment environment should not disadvantage the candidate
- Assessment practices should take into account any relevant language or cultural issues related to Aboriginality, gender or language backgrounds other than English
- Where the participant has a disability, reasonable adjustment may be applied during assessment
- Language and literacy demands of the assessment task should not be higher than those of the work role

Range Statement

RANGE STATEMENT

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

OHS requirements:

are to be in line with applicable Commonwealth, State or Territory legislation and regulations, and organisational safety policies and procedures, and may include:

- personal protective equipment and clothing
- safety equipment
- first aid equipment
- fire fighting equipment
- hazard and risk control
- fatigue management
- elimination of hazardous materials and substances
- safe forest practices including required actions relating to forest fire
- manual handling including shifting, lifting and carrying

Legislative requirements:

are to be in line with applicable Commonwealth, State or Territory legislation, regulations, certification requirements and codes of practice and may include:

- award and enterprise agreements
- industrial relations
- Australian Standards
- confidentiality and privacy
- OHS
- the environment
- equal opportunity
- anti-discrimination
- relevant industry codes of practice
- duty of care
- heritage and traditional land owner issues
- legal
- organisational and site guidelines
- policies and procedures relating to own role

Organisational requirements
may include:

RANGE STATEMENT

	- and responsibility • quality assurance • procedural manuals • quality and continuous improvement processes and standards • OHS, emergency and evacuation procedures • ethical standards • recording and reporting requirements • equipment use and maintenance and storage requirements • environmental management requirements (waste disposal, recycling and re-use guidelines)
Native forest regeneration	• will be in line with organisational marketing plan and local environmental imperatives
Relevant plans may include:	• marketing plans • strategic plans • business plans
Method of regeneration may include:	• prescription burning • infill planting to support directional natural regeneration • pathways (such as after gap harvesting) • direct seeding • crop tree retention
Consultative processes may include:	• face-to-face meetings • telephone • facsimile • written and email communication
	and may be with:
	• clients • neighbours • relevant groups/bodies such as environmental bodies • local, State and federal government bodies and agencies • local interest/lobby groups • friends' groups • representatives of industry bodies
Approvals may be required by:	• environmental bodies • local, State and federal government bodies and

RANGE STATEMENT

agencies

and may refer to:

- long-term budget approvals
- people
- materials
- equipment

Resources may include:

Authorisations may include:

- permits
- approvals
- licences relating to neighbouring properties

and may relate to:

- hours of operation
- use and application of chemicals
- the environment

Communication may include:

regular communication with:

- individuals
- groups and bodies
- operational staff
- clients

Documentation

must be clear and accurate and may include:

- changes to the plan or process maps
- plans and reports
- supplementary approvals
- supplementary notifications

Monitoring points

- should be performed at key stages of the process

Compliance requirements may include:

compliance with:

- OHS, organisational, legislative and environmental regulations, procedures, practices and precautions

and adherence to:

- site environmental imperatives
- performance indicators
- targets
- specifications

Information may be:

extracted from various sources and may include:

- legislation

RANGE STATEMENT

Records and reports may refer to:

- forest biology
- tree physiology
- new technology
- aerial photos
- difficulties or issues faced during conduct of forest regeneration
- recommendations for future work
- results
- costs
- data analysis

and may be:

- manual
- using a computer-based system
- other appropriate organisational communication system

Unit Sector(s)

Not Applicable

Competency field

Competency field Forest Growing and Management