



Australian Government

Department of Education, Employment and Workplace Relations

FPIFGM5216A Manage coupe planning

Release: 1

FPIFGM5216A Manage coupe planning

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to manage the planning of forest coupe establishment, harvesting and regeneration

General workplace legislative and regulatory requirements apply to this unit; however there are no specific licensing or certification requirements at the time of publication

There may be Codes of Practice applicable to coupe planning in some areas and for some forest types

This unit replaces FPIFGM5209A Manage coupe planning

Application of the Unit

Application of the unit

This unit involves managing coupe planning 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. Plan coupe establishment	1.1. Applicable Occupational Health and Safety (OHS), environmental, legislative and organisational requirements relevant to coupe planning are identified and followed 1.2. Local authority coverage, land owning and boundaries are established and assessed 1.3. Coupe location including map and grid references is checked 1.4. Land use zoning is identified or applied for 1.5. Planning permits are applied for 1.6. Communication with others is established and maintained in line with OHS and organisational requirements
2. Plan coupe harvesting	2.1. Forest type, available species and topography are analysed and documented in line with plan and site procedures 2.2. Gross area of coupe is calculated and net area to be harvested is established 2.3. Volume estimates are calculated and reported 2.4. Operational activities including site preparation, environmental considerations and access are planned 2.5. Harvesting and cartage contracts are let for tender and issued and cartage routes are set 2.6. Schedule for harvesting is produced, checked and communicated
3. Plan coupe regeneration	3.1. Regeneration method is selected to best suit the site conditions 3.2. Environmental protection measures for the landscape, soil and drainage are planned and instigated 3.3. Seeding process or seedling planting regime is created and scheduled 3.4. Silviculture systems are planned and scheduled 3.5. Management of coupe planning is recorded and reported to 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 select regeneration methods, create and schedule seeding processes or seedling regimes and planning silviculture systems
- Communication skills sufficient to use appropriate communication and interpersonal techniques with colleagues and others
- Literacy skills sufficient to record and report workplace information, maintain documentation and read and interpret maps
- Numeracy skills sufficient to estimate and calculate volume, gross and net areas
- Problem solving skills sufficient to identify problems and demonstrate appropriate response procedures
- Planning and organisational skills sufficient to organise and obtain required permits and to plan and implement coupe establishment, harvesting and regeneration processes

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 managing coupe planning
- Environmental protection requirements, including the safe disposal of waste material
- Organisational and site standards, requirements, policies and procedures for managing coupe planning
- Coupe establishment and planning
- Harvesting methodologies
- Regeneration principles and methods
- Hydrology and hydrological principles
- Botany, including plant identification and classification skills
- Ecology and ecological interactions
- Soil types and structure
- 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 for coupe planning
- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks

REQUIRED SKILLS AND KNOWLEDGE

- Procedures for recording and reporting 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 that they can safely and efficiently manage coupe planning within organisational requirements

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, including OHS, environmental and organisational policies and procedures, relevant to managing coupe planning
- following organisational policies and procedures relevant to managing coupe planning
- effective communication and safe work practices
- managing coupe planning in line with regulations and organisational requirements
- planning for the establishment, harvest and regeneration of forest coupes in line with site conditions, regulations and organisational requirements

Context of and specific resources for assessment

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

EVIDENCE GUIDE

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

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

RANGE STATEMENT

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

Organisational requirements may include:

- legal
- organisational and site guidelines
- policies and procedures relating to own role and responsibility
- quality assurance
- procedural manuals
- quality and continuous improvement processes and standards

RANGE STATEMENT

- 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)
- Local authorities** are to include:
- local government councils or shires with local planning and zoning authority for a given region
- Land owning** is to include:
- the process of notifying and obtaining owner approval to commence harvesting operations
- Boundaries** are to include:
- designated forest allotments owned privately, by government or by the forestry organisation; boundaries fall within survey pegs for the land allocated
- Zoning** is to include:
- designated forest coupes owned privately, by government or by the forestry organisation with boundaries that fall within survey pegs for the land allocated for forest growing and harvesting operations under local authority allocation
- Planning permits** are to include:
- permits granted by local authorities for forest growing and harvesting operations to take place based on approved plans submitted to local government complying with all required regulations
- Communication** may include:
- verbal and non-verbal language
 - constructive feedback
 - active listening
 - questioning to clarify and confirm understanding
 - use of positive, confident and cooperative language
 - use of language and concepts appropriate to individual social and cultural differences
 - control of tone of voice and body language
- Species** may include:
- native species of one or more types
 - imported species
- Topography** is to include:
- a map of the designated area showing terrain levels

RANGE STATEMENT

- contours
 - elevations
 - slopes
 - gullies and adjoining land parcels
 - rainfall
 - soil type
- Gross area** is to include:
- the total area mass of the planned forest coupe
- Net area** is to include:
- the total area of forest available for harvesting excluding streamside
 - buffers
 - filter strips
 - habitat protection areas
 - rainforest protection
 - excluded areas
 - roads
 - tracks and landings
- Harvesting** is to include:
- the methods of cutting and extracting trees and logs from designated areas
- Volume** is to include:
- the estimated return of cubic metres or tonnes of timber for each of sawlogs, pulpwood or firewood
- Operational activities** may include:
- coupe map details
 - site preparation
 - streamside buffers
 - filter strips
 - contours
 - gullies
 - crossing points
 - habitat protection
 - rainforest protection
 - flora and fauna protection
 - landscape protection
 - excluded areas
 - rubbish removal
 - permanent roads
 - temporary roads
 - landings
 - dumps
 - snig tracks
 - forwarding tracks

RANGE STATEMENT

- adjoining land
 - wet weather restrictions
 - fire protection requirements
- Cartage** is to include:
- the use of log truck hauling operators to remove felled logs from the site
- Regeneration** is to include:
- the return of a coupe to a revegetated state
 - protecting its landscape
 - soil and drainage
- Site conditions** should include:
- rainfall
 - soil type
 - topography
- Environmental protection measures** may include:
- action to limit impacts on:
- selected forest vegetation
 - fauna
 - habitat
 - soil and water features
- Seeding process** is to include:
- natural seed-fall following burning of log debris
- Silviculture** is to include:
- the growth management of a forest and tending to the trees to maximise growth
- Records and reports** may include:
- producing detailed records and reports outlining the planning of coupe establishment, harvesting and regeneration processes
 - and may be manual, using a computer-based system or another appropriate organisational communication system

Unit Sector(s)

Not Applicable

Competency field

Competency field Forest Growing and Management