



Australian Government

Department of Education, Employment and Workplace Relations

FPIHAR4205B Implement harvesting plans

Release: 1

FPIHAR4205B Implement harvesting plans

Modification History

Not Applicable

Unit Descriptor

Unit descriptor This unit describes the outcomes required to implement harvesting plans for established coupes to maximise output and cost efficiencies
Compliance with licensing, legislative, regulatory or certification requirements may be required in various jurisdictions
This unit replaces FPIHAR4205B Implement harvesting plans

Application of the Unit

Application of the unit The unit involves implementing harvesting plans in a forest or farm forest setting
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

Prerequisite units

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 <i>coupe</i> harvesting	1.1. Applicable <i>Occupational Health and Safety</i> (OHS), <i>environmental, legislative</i> and <i>organisational requirements</i> relevant to implementing harvesting plans are identified and followed 1.2. Size of coupe and available timber is calculated 1.3. Human resource requirements, <i>equipment</i> and resource requirements are estimated 1.4. Personnel plans and schedules are drawn up and employees notified of coupe harvesting date and location 1.5. Equipment is selected appropriate to work requirements and checked for operational effectiveness in line with manufacturer's recommendations 1.6. <i>Planning permits</i> are applied for 1.7. <i>Communication</i> with others is established and maintained in line with OHS requirements
2. Implement harvesting plans	2.1. Forest type, available <i>species</i> and <i>topography</i> are analysed and documented in line with plan and site procedures 2.2. <i>Gross area</i> of coupe is calculated and <i>nett area</i> to be <i>harvested</i> established 2.3. <i>Volume</i> estimates are calculated and reported 2.4. <i>Operational activities</i> including site preparation, environmental considerations and access are planned 2.5. Harvesting and <i>cartage</i> contracts are let for tender and issued and cartage routes set 2.6. Schedule for harvesting is produced, checked and communicated
3. Review harvesting plan	3.1. Problems encountered during harvesting are assessed and processes planned for improvement 3.2. Personnel and equipment efficiencies are reviewed and improvements planned for implementation 3.3. Environmental issues encountered during harvesting are documented and fed into future planning processes 3.4. Harvesting plan and methods are assessed and improvements devised 3.5. Harvesting plan implementation issues are <i>recorded and reported</i> 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 use and maintain relevant tools, machinery and equipment; effectively coordinate harvesting and cartage contracts
- Communication skills and interpersonal techniques sufficient to interact appropriately with colleagues and others in the workplace
- Literacy skills sufficient to accurately record and report workplace information, and maintain documentation
- Numeracy skills sufficient to accurately calculate gross and nett areas
- Problem solving skills sufficient to identify problems and equipment faults and demonstrate appropriate response procedures

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 implementing harvesting plans
- Environmental protection requirements, including the safe disposal of waste material the cleaning of plant, tools and equipment
- Organisational and site standards, requirements, policies and procedures for implementing harvesting plans
- Environmental risks and hazards specific to coupes
- Coupe establishment and harvesting planning
- Harvesting methodologies
- 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
- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks
- Procedures for recording and reporting workplace records and 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 safely and efficiently implement harvesting plans 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 relevant to implementing harvesting plans
- following organisational policies and procedures relevant to implementing harvesting plans
- implementing harvesting plans in line with regulations and organisational requirements
- implementing harvesting plans 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 follow 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

Method of assessment

- Assessment must satisfy the endorsed Assessment Guidelines of the FPI11 Training Package
- Assessment methods must confirm consistency and

EVIDENCE GUIDE

accuracy of performance (over time and in a range of workplace relevant contexts) together with application of required knowledge

- Assessment must be by direct observation of tasks, with questioning on required knowledge and it must also reinforce the integration of employability skills
- 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 regional contexts) may also be included.

Coupe

is a large plot or stand of timber in a designated area which is planned for harvesting

RANGE STATEMENT

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

Environmental requirements
may include:

- legislation
- organisational policies and procedures
- workplace practices

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

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

RANGE STATEMENT

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)

RANGE STATEMENT

Equipment may include:

- standard harvesting equipment
- equipment required for a specific harvesting activity

and is to include:

- procedures for equipment lock-out such as protecting operators and co-workers from accidental injury by isolating the machine

Planning permits

are permits granted by local authorities for forest growing and harvesting operations to take place based on approved plans submitted to local government following 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
- body language

Species may include:

- native species of one or more type
- imported species

Topography

is a map of the designated area showing terrain levels, contours, elevations, slopes, gullies and adjoining land parcels, rainfall, soil type

Gross area

is the total area mass of the planned forest coupe

Nett area

is the total area of forest available for harvesting excluding streamside buffers, filter strips, habitat protection areas, rainforest protection, excluded areas, roads, tracks and landings

Harvested

is the method of cutting and extracting trees and logs from designated areas

Volume

is the estimated return of cubic metres or tonnes of timber for each of sawlogs, pulpwood or firewood

Operational activities may

- coupe map details

RANGE STATEMENT

include:

- site preparation
- streamside buffers
- filter strips
- contours
- gullies
- crossing points
- habitat protection
- rainforest protection
- flora and fauna protection
- landscape protection
- soil and water protection
- excluded areas
- rubbish removal
- permanent roads
- temporary roads
- landings
- dumps
- snig tracks
- forwarding tracks
- adjoining land
- wet weather restrictions
- fire protection requirements

Cartage

is the use of log truck hauling operators to remove felled logs from the site

Records and reports may include:

- producing detailed records and reports outlining the implementation of harvesting plans and the review processes

and may be:

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

Unit Sector(s)

Unit sector

No sector assigned

Co-requisite units

Co-requisite units

Competency field

Competency field Harvesting and Haulage