



Australian Government

Department of Education, Employment and Workplace Relations

FPICOT2220B Select trees for tending operations

Release: 1

FPICOT2220B Select trees for tending operations

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to select appropriate trees for tending operations. The unit includes identification of tree characteristics and distribution, and use of marking equipment

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

This unit replaces FPICOT2220A Select trees for tending operations

Application of the Unit

Application of the unit

The unit involves selecting trees for tending operations in a forest environment 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

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. Identify trees	1.1. Applicable occupational health and safety (OHS), environmental, legislative and organisational requirements relevant to selecting trees for tending operations are identified and followed 1.2. Site environmental protection measures are identified and adhered to in line with relevant legislation and regulations 1.3. Selection method, characteristics and tree distribution are determined from work order and checked with appropriate personnel 1.4. Hazards and site conditions are inspected and assessed in line with regulations and site procedures 1.5. Communication with others is established and maintained in line with OHS requirements
2. Select and mark trees	2.1. Equipment is selected appropriate to work requirements and checked for operational effectiveness in line with manufacturer recommendations 2.2. Forest area for tree selection is located and checked in line with work order and environmental regulations 2.3. Trees are selected in line with work order, site procedures and environmental regulations 2.4. Trees are marked or re-marked using appropriate marking equipment in line with site procedures 2.5. Recommendations for further tree selection are made to appropriate personnel in line with site procedures and environmental regulations

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 marking equipment; select trees; recognise common diseases, pests and nutritional deficiencies

REQUIRED SKILLS AND KNOWLEDGE

- Communication skills sufficient to use appropriate communication and interpersonal techniques with colleagues and others; locate and report information
- Literacy skills sufficient to follow legislation, regulations, standards, codes of practice and established safe practices and procedures for selecting trees; review and identify work requirements; locate forest area in the field from maps and plans
- Numeracy skills sufficient to measure, estimate, and calculate time required to complete a task
- Problem solving skills sufficient to identify problems and equipment faults; 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 selecting trees for tending operations
- Environmental protection requirements, including the safe disposal of waste material and the safe use and storage of chemicals
- Organisational and site standards, requirements, policies and procedures for selecting trees for tending operations
- Environmental risks and hazards
- Using material effectively and efficiently
- Tree species and tree selection components of the work order
- Hazards associated with tree selection
- 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 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 identify, select and mark appropriate trees by following specific guidelines, criteria and procedures

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 selecting trees for tending operations
- following organisational policies and procedures relevant to selecting trees for tending operations
- identifying forest location, tree distribution and characteristics maps, work order and other instructions
- selecting and marking trees using marking equipment
- 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

Context of and specific resources for assessment

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

EVIDENCE GUIDE

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.

OHS requirements:

are to be in line with applicable commonwealth, state or territory legislation and regulations, and organisational safety policies and procedures, and

RANGE STATEMENT

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
- legislation
- organisational policies and procedures
- workplace practices

Environmental requirements
may include:

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 processes and standards
- OHS, emergency and evacuation procedures
- ethical standards

RANGE STATEMENT

- recording and reporting requirements
- equipment use, maintenance and storage requirements
- environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)

Tree selection may include:

- dominance and vigour
- leader defects
- straightness
- lean
- size
- angle
- number of branches
- spacing and overall tree health
- stocking
- green crowns
- quality requirements

and may be selected for:

- thinning
- pruning
- disease treatment
- harvesting
- retaining
- seed collection
- removal because of tree damage
- species
- retention as habitat trees
- recruitment habitat trees

Environmental protection measures may relate to:

- hygiene of the area
- relevant national, state or territory, and local legislation and regulations

and may include:

- ground growth
- canopy
- general forest lean
- wind speed and direction
- fallen trees
- density of trees
- ground slope
- soil and water protection

RANGE STATEMENT

- Method** may include:
- ground hazards and obstacles
 - contingencies for modifying operations during wet or other adverse weather conditions
 - counting trees at regular intervals (e.g. every fifth tree)
 - selecting trees with particular characteristics (e.g. storm damage or disease)
 - selecting predetermined number of trees in a given area
 - selecting trees for specialised products
 - assessing and selecting trees in relation to their role in carbon capture and storage
- Work order** may relate to:
- tree species
 - required safety clothing and equipment
 - required pruning equipment
 - tree selection
 - production target
 - quality
 - stock
 - required stub length
 - pruning height
- and may include:
- instructions for the environmental monitoring of work and procedures
 - environmental care requirements relevant to the work
- Appropriate personnel** may include:
- supervisors
 - clients
 - colleagues
 - line management
- Hazards** may include:
- slope
 - water
 - rock
 - undergrowth
 - slash
 - depressions and holes
 - falling or fallen branches
- Communication** may include:
- verbal and non-verbal language
 - constructive feedback
 - active listening

RANGE STATEMENT

- 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
- marking equipment
- tape
- paint
- blaze

Equipment may include:

Unit Sector(s)

Not Applicable

Competency field

Competency field Common Technical