



Australian Government

Department of Education, Employment and Workplace Relations

FPICOR6202A Implement practices to maximise value from wood residues

Release: 1

FPICOR6202A Implement practices to maximise value from wood residues

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to evaluate and implement effective wood management practices that ensure maximum product value recovery and adherence to environmentally sustainable principles

General workplace legislative and regulatory requirements apply to this unit. Subject to enterprise requirements specific licences/certification may be required in the following areas: Forest sustainability certification, Chain of Custody certification

Application of the Unit

Application of the unit

The unit involves implementing practices to maximise value from wood and residues in a variety of work settings including

- forest /plantation environment
- saw mill
- wood chip mill
- veneer mill
- board/plywood mill
- timber treatment plants
- downstream processing of timber
- timber and wood products production
- timber and wood products sales and service
- other settings, such as farms, agriculture, workshops, domestic, nursery, local council applications, as applicable to the unit

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

Not Applicable

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. Develop a value maximisation plan	<p>1.1. Applicable <i>Occupational Health and Safety</i> (OHS), <i>environmental, legislative</i> and <i>organisational requirements</i> relevant to implementing practices to maximise value from wood and wood residue are identified and followed</p> <p>1.2. Management plans and priorities for site are reviewed</p> <p>1.3. Site environmental protection measures are identified and adhered to in line with relevant legislation and regulations</p> <p>1.4. <i>Timeline</i> and budget are established and checked with <i>appropriate personnel</i></p> <p>1.5. <i>Applications</i> and <i>demand</i> for wood and residue material are determined and documented in line with site requirements</p> <p>1.6. <i>Product value chain</i> is determined and documented in line with site requirements</p> <p>1.7. <i>Consultative processes</i> are used to obtain input to the plan in line with site requirements</p> <p>1.8. Most appropriate value maximisation options for the site are determined and documented</p>
2. Determine appropriate value maximisation practices	<p>2.1. Legislative, organisational and best practice parameters governing wood management practices are identified</p> <p>2.2. Management plans and priorities for the site are reviewed</p> <p>2.3. Most appropriate value maximisation practices for the site are determined</p> <p>2.4. Technology, materials and <i>resources</i> required for implementation are defined</p> <p>2.5. Value maximisation plan is developed and submitted to the appropriate personnel for approval</p>
3. Implement value maximisation practices	<p>3.1. Value maximisation plan is implemented in line with <i>methodology</i>, schedule, budget and legislative requirements</p> <p>3.2. Required technology, materials, resources and <i>authorisations</i> are obtained in line with organisational and legislative requirements</p> <p>3.3. <i>Production schedule</i> for the value maximisation plan is <i>communicated</i> to appropriate personnel</p> <p>3.4. Processes to monitor implementation of the plan are</p>

ELEMENT	PERFORMANCE CRITERIA
	established
4. Review and improve value maximisation practices	<p>4.1. Value maximisation plan is <i>monitored</i> and <i>reviewed</i> against methodology and production schedule in line with organisational requirements</p> <p>4.2. <i>Information and data</i> is <i>analysed</i> to determine effectiveness of the value maximisation practices and improvement opportunities are determined</p> <p>4.3. <i>Improvement recommendations</i> are prepared based on information, data analysis and consultative processes</p> <p>4.4. Outcomes are <i>recorded and reported</i> to appropriate personnel</p>

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 practices to maximise wood product value and avoid or minimise residue production
- Communication skills sufficient to use consultative, communicative, interpersonal and reporting techniques with colleagues and contractors
- Literacy skills sufficient to prepare and present written and oral information to colleagues and contractors
- Numeracy skills sufficient to analyse qualitative and quantitative information and data
- Problem solving skills sufficient to identify potential uses for wood products; identify market demand; demonstrate time and project management
- Planning and organisational skills sufficient to coordinate the acquisition of required resources, authorisations and approvals; implement management practices

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 implement practices to maximise value from wood products
- Environmental protection requirements, including the safe disposal of waste material
- Organisational and site standards, requirements, policies and procedures for implementing practices to maximise value from wood and residues

REQUIRED SKILLS AND KNOWLEDGE

- Environmental risks and hazards
- Role of wood or waste products in generating renewable energy through biomass
- Minimising environmental impact
- Using energy effectively and efficiently
- Using material effectively and efficiently
- Extensive range of wood products, uses, markets and values
- Work practices that avoid or reduce wood residues
- Potential uses for wood residues and by products
- Data collection and analysis methods
- Established communication channels and protocols
- Problem identification and resolution strategies
- Types of tools and equipment, and procedures for their safe use and maintenance
- Appropriate mathematical procedures for analysing, 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 implement practices to maximise value of wood products and residues

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 practices to maximise value from wood and residues
- following organisational policies and procedures relevant to implementing practices to maximise value from wood and residues
- practical implementation of practices to maximise value from wood and wood residues

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

EVIDENCE GUIDE

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 key competencies
- 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 may include:

RANGE STATEMENT

	<ul style="list-style-type: none"> • personal protective equipment and clothing • safety equipment • first aid equipment • fire fighting equipment • fatigue management • hazard and risk control • 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:	<ul style="list-style-type: none"> • legislation • organisational policies and procedures • workplace practices
Legislative requirements:	<p>are to be in line with applicable Commonwealth, State or Territory legislation, regulations, certification requirements and codes of practice and may include:</p> <ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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 • recording and reporting requirements • equipment use, maintenance and storage

RANGE STATEMENT

	requirements
	<ul style="list-style-type: none"> • environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)
Timeline	<ul style="list-style-type: none"> • may be critical to the success of the program • must identify any environmental restrictions such as excessive heat or rain impacting on production
Appropriate personnel may include:	<ul style="list-style-type: none"> • coordinating or operational personnel • management • colleagues • clients • relevant groups
Applications	<ul style="list-style-type: none"> • are the uses for wood and residues <p>and may include:</p> <ul style="list-style-type: none"> • poles • piles and bridge timbers • veneer logs • saw logs • chip logs • charcoal logs • woody biomass • structural and non-structural timbers • timber composites • timber panel products • timber engineered products • carbon storage • eucalyptus oil • extractives
Demand	<ul style="list-style-type: none"> • is market demand <p>and must include assessment of:</p> <ul style="list-style-type: none"> • volume • price • special process requirements
Product value chain	is a summary of the obtainable products and their market value
Consultative processes may include:	<ul style="list-style-type: none"> • face-to-face meetings • telephone • fax, written and email communication

RANGE STATEMENT

and may be with:

- clients
- technical operators
- marketing groups
- operational personnel
- colleagues
- relevant groups such as environmental groups
- local, State/Territory and federal government bodies
- internal policy groups
- are the resources needed to implement the plan

Resources

and may include:

- staff
- production
- technical
- subcontractors

Methodology

- is the system of practices to be implemented to maximise value

and may include:

- avoiding production of residues
- reducing the volume of residues
- marketing practices
- sales practices
- new work practices

Authorisations must include:

- permits and licences relating to:
 - sites or properties
 - hours of operation
 - use and application of chemicals
 - environmental issues

Production schedule

is the anticipated timing, volume and product range to be produced from an area

Communication

see consultative processes

Monitored may be:

- time-based
- frequency-based
- value-based

Reviewed may include:

- compliance with OHS, legislative and environmental regulations, procedures,

RANGE STATEMENT

	practices and precautions
	<ul style="list-style-type: none">• adherence to site imperatives, specifications, quality and performance targets• completion and submission of documentation as required
Information and data	<ul style="list-style-type: none">• will relate to the operational area and methodologies employed <p>and may include:</p> <ul style="list-style-type: none">• data• previous reports• management information systems data• marketing• strategic and business plans, and associated implementation issues
Analysed may include:	<ul style="list-style-type: none">• assessment and judgement of:<ul style="list-style-type: none">• quantitative and qualitative data• performance• adherence to work practices• value judgements
Improvement recommendations	are recommendations for adjustment to practices based on analysis
Records and reports may include:	<ul style="list-style-type: none">• results• costs• data analysis• recommendations for future work• planning and implementation difficulties or issues faced <p>and may be:</p> <ul style="list-style-type: none">• manual• computer based

Unit Sector(s)

Not Applicable

Competency field

Competency field

Core Unit