



Australian Government

FPICOT3263 Maintain and contribute to energy efficiency

Release 1

FPICOT3263 Maintain and contribute to energy efficiency

Modification History

Version 1.0 No equivalent unit.

Unit Descriptor

Unit descriptor This unit describes the outcomes required to maintain energy efficient work practices and contribute to systems improvement with regard to energy efficiency in the forest and timber products industry.

It also includes developing an understanding of the positive benefits of the forest and wood products industry in reducing greenhouse emissions, and promoting them to stakeholders.

These work functions would be carried out under routine supervision and within organisational guidelines.

Application of the Unit

Application of the unit The unit involves maintaining and contributing to energy efficient work practices in the forest and forest products industry across a range of operations and work settings.

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

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

Pre-Requisites

Nil.

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

NEW ELEMENT	NEW PERFORMANCE CRITERIA
1. Identify requirements to maintain and contribute to energy efficiency	1.1 Appropriate work/occupational health and safety (WHS/OHS), environmental, and organisational policies and procedures relevant to maintaining and contributing to energy efficiency are identified and followed 1.2 Requirements to maintain energy efficiency are identified and reviewed 1.3 Benefits relating to the forest and wood products industry and energy efficiency are identified 1.4 Benefits of using forest and timber products, in comparison to other building materials, are identified through a life cycle analysis
2. Follow and promote energy efficient work practices	2.1 Site energy efficiency policy and procedures, including those relating to recycling and waste management, are adhered to 2.2 Equipment is operated to ensure maximum energy efficiency 2.3 Own work practices are monitored to maintain energy efficiency 2.4 Positive aspects of the forest and timber products industry, and the benefits of forest and timber products in comparison to other building materials, are promoted with internal and external stakeholders
3. Contribute to systems improvement with regard to energy efficiency	3.1 Reviews of operations for improvement in energy efficiency are contributed to and supported 3.2 Opportunities for efficiencies in consumption of raw materials are identified and progressed through appropriate personnel 3.3 Opportunities for innovation in energy efficiency are identified and progressed through established channels

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 to use relevant equipment
- Communication and interpersonal skills to interact appropriately with colleagues and others in the workplace
- Numeracy skills to estimate, measure and calculate various factors relating to energy usage and efficiency improvements

Required knowledge

- Organisational and site standards, requirements, policies and procedures relevant to maintaining and contributing to energy efficiency
- Environmental protection requirements, including the safe disposal of waste material and site recycling, recovery and waste management procedures
- Workplace communication channels, protocols and procedures
- Role of forests, forestry and forest products in carbon capture and storage
- Role of the forest and timber products industry in minimising greenhouse emissions
- Life cycle analysis of forests and forest products in comparison to other building materials

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 maintain and contribute to energy efficient work practices

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:

EVIDENCE GUIDE

Context of and specific resources for assessment

- following organisational policies and procedures relevant to maintaining and contributing to energy efficiency
- the safe use of relevant equipment to complete work tasks while optimising energy efficiency
- participating in processes to improve energy efficiency.
- 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
 - organisational policies and procedures that contribute to energy efficient work practices

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 must be by direct observation of tasks, with questioning on required knowledge and it must

EVIDENCE GUIDE

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.

WHS/OHS policies and procedures:

- 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
 - hazard and risk control
 - fatigue management
 - elimination of hazardous materials and substances
 - safe forest practices, including required actions relating to forest fire
 - machine guarding

Environmental policies and procedures must include:

- workplace practices
- environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)

Organisational policies and procedures:

- are to be in line with applicable commonwealth, state or territory legislation, regulations, certification requirements and codes of practice and may include:
 - Australian standards
 - processes and standards
 - WHS/OHS, emergency and evacuation procedures
 - relevant industry codes of practice
 - duty of care
 - heritage and traditional land owner issues
 - organisational and site guidelines regarding energy efficiency
 - policies and procedures relating to own role and responsibility
 - quality and continuous improvement
 - recording and reporting requirements
 - equipment use, maintenance and storage requirements

Equipment:

- is to include:

RANGE STATEMENT

- equipment necessary to complete work tasks
- and may include:
 - telephones or communications equipment
 - tools
 - machinery
 - vehicles
 - instruments
 - computers and printers
 - facsimile machines and photocopiers
 - lighting and air conditioning
- Energy efficiency** may include:
 - maximising resource use
 - minimising waste
 - maximising recycling
 - reducing landfill
- Work practices** may include:
 - equipment use
 - energy use
 - reduced carbon emissions
 - use of non-renewable resources
 - re-using and recycling
 - reduced waste generation and material consumption
 - the use of hazardous and toxic materials
 - chemical use
- Positive aspects** may include:
 - carbon sequestration in trees
 - storage of carbon in trees, wood, timber and paper products
 - neutral or positive carbon footprints
- Appropriate personnel** may include:
 - supervisors
 - suppliers
 - clients
 - colleagues
 - managers

Unit Sector(s)

Not applicable.

Custom Content Section

Not applicable.