



Australian Government

**Assessment Requirements for
FWPSAW4208 Plan for and coordinate
timber kiln drying operations**

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has planned, coordinated and evaluated two timber drying operations.

In performing these tasks, the individual has:

- communicated and coordinated personnel effectively to follow workplace procedures, workplace health and safety and environmental protection practices and/or procedures, and planning and scheduling required for timber drying operation
- complied with legislation, standards and codes of practice relevant to timber drying operations
- monitored timber drying operations and output against confirmed production targets, specifications and performance indicators, and identified production and equipment problems and faults
- resolved one real or hypothetical problem in the timber drying operation
- recorded and reported production information including output, quality and faults
- evaluated timber drying operation and suggested one process improvement
- maintained inventory levels and coordinated equipment maintenance.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- hazards and associated risks with timber drying, and risk control strategies as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
- key requirements of legislation, standards and codes of practice relevant to timber drying operations
- workplace procedures, policies and standards relevant to planning and coordinating timber drying regarding:

- health and safety, including the use of personal protective equipment (PPE)
- environmental protection, including safe disposal of waste material and efficient use of energy
- quality assurance, including chain of custody requirements
- communication channels and protocols to communicate with team members
- recording and reporting information on output, quality, workplace health and safety and equipment faults
- types, uses, operation, capability, capacity and components of timber drying kilns from workplace environment
- timber characteristics in relation to drying ease and susceptibility to drying degrade
- principles and purpose of timber drying process and its effect on wood end-use
- advantages and limitations of timber drying processes
- timber drying methods
- types of biological attack, their impact on visual appearance and their degrading effect on wood, including:
 - decay
 - mould
 - fungi
- effect of surface mould and sapstain fungi on drying
- factors for consideration when scheduling kiln charges to optimise production throughputs
- timber drying kiln plant control and product testing equipment
- timber moisture content, including fibre saturation point and equilibrium moisture content
- impact of moisture content and moisture gradient on the end-use effectiveness of timber
- timber drying defects, reasons and control measures
- influence of temperature, relative humidity and rate of air circulation on drying rate
- target moisture content for major product groups according to relevant Australian Standards
- kiln drying schedules for drying timber at optimal rate and target moisture content without causing unacceptable degrade
- methods for problem identification, including equipment failures at process stages, bottlenecks in production process and product variations, and resolution strategies
- process improvement for timber drying, including:
 - data
 - methods
 - participative approaches
 - communication.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:

- skills must be demonstrated in a timber processing plant, a timber product manufacturing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - timber drying equipment
 - timber for drying
 - PPE required for coordinating timber kiln drying operations
 - computers, keyboards, printers and software used to prepare planning and production documents
- specifications:
 - templates for documenting relevant information on timber kiln drying
 - production schedule for timber kiln drying
 - workplace procedures for timber kiln drying
 - workplace health and safety and environmental protection policies and/or procedures applicable to timber kiln drying
- relationships:
 - work team to communicate requirements related to timber kiln drying operations.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>