



Australian Government

**Assessment Requirements for
FWPCOT3291 Apply principles of timber
and process optimisation in sawmill
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 5.0.

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, on at least one occasion, identified opportunities for timber and workflow optimisation in own work area and has:

- identified the drivers for optimisation
- distinguished between timber and workflow optimisation
- made recommendations to correct sub-optimal performance in own work area
- participated in one optimisation initiative.

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:

- timber value and volume recovery:
 - definition
 - ways of measuring
- drivers for optimisation in sawmilling operations:
 - efficiency
 - productivity
 - quality
 - competitiveness
- distinction between timber and material flow optimisation
- measures to improve timber and material flow optimisation
- impact of timber and material flow optimisation on timber value and volume recovery in sawmill operations
- opportunities for timber optimisation in sawmilling operations in one or more of the following areas:

- log sorting
- sawing in the green mill
- dry mill processing
- grading
- timber treatment
- opportunities for material flow optimisation in sawmilling operations
- technologies applied to enhance timber and workflow optimisation in sawmill operations:
 - 3D, X-ray and acoustic scanning devices
 - automated transfer systems
 - computer-assisted machine centres for sawing and re-sawing
- work practices applied to enhance timber and workflow optimisation in sawmill operations.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a forest product factory setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - workplace documents that provide basic information on work practices, procedures, processes or equipment performance in own work area
 - workplace documents that provide basic information on requirements or performance indicators in relation to timber value and volume recovery
 - access to and opportunity to participate in a real or simulated optimisation initiative relevant to sawmilling 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>