



Australian Government

**Assessment Requirements for
FWPCOT3292 Calibrate and maintain
scanning equipment used in sawmilling
operations**

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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, accurately calibrated scanning equipment used in sawmilling operations and has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- reviewed work order to determine job requirements
- used personal protective equipment (PPE), lock-out procedures and safe manual handling techniques
- identified, assessed and taken actions to mitigate risks and hazards associated with working with scanning equipment
- calibrated one or more of the following types of scanning equipment:
 - optical (1–3 dimension)
 - X-ray
 - microwave
 - multispectral
 - acoustic
- tested the calibration accuracy
- performed routine maintenance of scanning equipment
- recorded all calibration data accurately according to workplace and manufacturer requirements.

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:

- types of risk and hazards and mitigation measures associated with operating and calibrating scanning equipment

- types of scanning equipment:
 - optical (1–3 dimension)
 - X-ray
 - microwave
 - multispectral
 - acoustic
- methods for determining capability and resolution of different scanning equipment in detecting timber characteristics and defects, including:
 - thickness
 - shape
 - wane
 - knots
 - decay
 - foreign objects
 - heartwood
 - log stiffness
 - grain angle
 - colour check
 - stain
- calibration procedures and calibration points for scanning equipment
- function of key components of scanning equipment, operating principles, details of the pre-use, calibration and safety checks, and operating procedures for the items used
- factors that may impact on the accuracy of scanning equipment and their control
- role and importance of regular calibration checks and maintenance of equipment
- methods for testing calibration using a benchmark object (the standard)
- methods and frequency used to perform the checks and calibrations
- awareness of environmental sustainability issues as they relate to the work task
- legal, ethical and work health and safety requirements specific to the work task
- procedures for quarantining out-of-calibration equipment.

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:
 - scanning equipment used in sawmill operations including one or more of the following: optical (1–3 dimension), X-ray, microwave, multispectral, acoustic scanning equipment
 - tools, equipment and testing devices used in calibrating scanning equipment

- PPE for operating and calibrating scanning equipment
- specifications:
 - template documents for recording calibration outcomes
 - manufacturer instructions for calibration of scanning equipment
 - work order with specific instructions for calibration of scanning equipment
 - workplace procedures for calibration of scanning equipment.

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>