



Australian Government

FWPCOT3272 Set up and run multi-head moulder/planer to produce simple profiles

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.

Application

This unit of competency describes the skills and knowledge required to set up and run a computer numerically controlled (CNC) or semi-automated multi-head moulder/planer to produce timber with simple profiles such as DAR (dressed all round) boards, either with a square edge or pencil round edge, or skip-dressed boards.

The unit applies to individuals who set up and run multi-head moulders/planers in a timber processing or manufacturing facility to produce timber with simple profiles.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Common Technical (COT)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for work	1.1 Review work order to determine job requirements and, where required, seek clarification from appropriate personnel 1.2 Review workplace health and safety procedures, including the use

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	of personal protective equipment, equipment lock-out and safe manual handling techniques 1.3 Identify, assess and take actions to mitigate risks and hazards associated with setting up and running a multi-head moulder/planer 1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency 1.5 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.6 Obtain tools, equipment and testing devices needed for the work, and check for correct operation and safety
2. Select and fit cutter heads for simple timber profile	2.1 Select cutter heads consistent with required timber profile 2.2 Check cutter heads for damage and defects according to manufacturer and workplace procedures 2.3 Prepare cutter head according to manufacturer procedures
3. Complete set-up	3.1 Adjust machine components to meet product requirements 3.2 Set safety hoods and machine guards according to manufacturer and workplace safety requirements 3.3 Calculate feed speed and set in relation to timber size, profile and species according to workplace procedures
4. Calibrate moulder/planer	4.1 Remove setting-up tools and other tools and equipment from the moulder/planer according to workplace procedures 4.2 Complete start-up check according to workplace procedures 4.3 Run test piece through the moulder/planer to check equipment operation, accuracy, quality and dimensions of finished work 4.4 Accept or reject trialled material and dispose of according to environmental protection practices 4.5 Adjust components until output timber conforms to the required profile
5. Operate multi-head moulder/planer	5.1 Maintain feed rate appropriate to machine capability, timber condition and board size 5.2 Assess dressing conditions regularly to ensure continuity of supply and processing 5.3 Adjust conditions to optimise feed rate and maintain finished

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	dimensions according to work order requirements 5.4 Regularly evaluate finish and measure dressed board dimensions, and make adjustments to ensure product quality and required dimensions 5.5 Dispose of incorrect cuts, off-cuts and defective material according to environmental protection practices
6. Monitor multi-head moulder/planer	6.1 Monitor in-feed and out-feed of timber to prevent degrading of the output product 6.2 Monitor quality of output product and make adjustments to correct identified quality issues according to workplace procedures 6.3 Monitor and maintain supplies of timber to ensure consistent operation of the moulder/planer
7. Maintain multi-head moulder/planer	7.1 Follow workplace safety procedures to lock out equipment 7.2 Check, remove and replace blunt and damaged cutters according to manufacturer recommendations 7.3 Dispose of used cutters according to environmental protection practices 7.4 Monitor dust extraction system during operation to ensure compliance with workplace health and safety requirements 7.5 Keep machine area clear of dust and debris according to workplace health and safety procedures 7.6 Record and report production outcomes, equipment faults and maintenance requirements to appropriate personnel

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Extracts essential information from workplace documents on the operation of multi-head moulders/planers

Skill	Description
Writing	Prepares routine written reports that inform others about the outcomes of work activities
Oral communication	Employs active listening and questioning to clarify information on process flow in sawmills
Numeracy	Measures finished dimensions against specifications and allowable tolerances
Navigate the world of work	Understands main tasks, responsibilities and boundaries of own role
Interact with others	Uses modes of communication suitable to purpose to confirm and clarify understanding
Get the work done	Recognises and responds to routine problems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3272 Set up and run multi-head moulder/planer to produce simple profiles	FWPCOT3266 Dress timber using multi-headed machines	This unit and FWPCOT3273 have replaced FWPCOT3266 for creating specific skills required of operators using multi-head moulder/planer to produce timber with simple profiles	No equivalent unit

Links

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

Assessment Requirements for FWPCOT3272 Set up and run multi-head moulder/planer to produce simple profiles

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Performance Evidence

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

There must be evidence that, on at least one occasion, the individual has:

- set up and run a multi-head moulder/planer to produce timber with any of the following simple profiles:
 - dressed all round (DAR) boards, either with a square edge or pencil round edge
 - skip-dressed boards
- in doing the above job:
 - followed work order and relevant workplace health and safety and environmental protection procedures
 - selected and fitted cutter heads for a profile specified in a work order
 - calibrated the moulder/planer to ensure output timber conforms to the required profile
 - run the moulder/planer
 - completed workplace reports on set-up, calibration and production activities.

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:

- purpose, features, operating parameters, components and operation of multi-head moulders/planers
- equipment used in setting up and running multi-head moulders/planers
- types of cutters used to produce simple profiles
- types and applications of simple profiles:
 - DAR timber boards, either with a square edge or pencil round edge
 - skip-dressed timber boards
- cutter head damage and defects:
 - types

- effects
- corrective actions
- multi-head moulder/planer machine components:
 - cutters
 - fences
 - guides
 - bed plates
 - rollers
 - beam
- variables impacting on the finished quality of machined timber:
 - machine variables, including cutting speed, cutter pitch, feed speed, cutting angles, cutter sharpness
 - timber variables, including moisture content, grade, age, species
- feed rates and how they affect production output and finished quality of timber boards
- methods for calculating feed speed
- factors that impact on the selection of feed speed:
 - size
 - profile
 - species
- typical timber defects and how these impact on the quality of finished product:
 - warp
 - wane
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets
- industry standard profiles, lengths, cross-sections and tolerances and applicable terminology
- cutting patterns used on boards to achieve maximum volume recovery
- methods for assessing cutter condition
- types of risk and hazards and mitigation measures associated with dressing boards using multi-head moulders/planers
- workplace procedures specific to dressing boards using multi-head moulders/planers:
 - workplace health and safety, with particular emphasis on equipment lock-out, use of personal protective equipment (PPE) and safe manual handling techniques
 - communication reporting lines
 - recording and reporting production outcomes, equipment faults and maintenance requirements
 - environment protection legislation relating to sawmill operations.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber processing or manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - multi-head moulder/planer
 - cutters for simple profiles
 - tools for setting up and calibrating multi-head moulders/planers
 - PPE suitable for setting up and running multi-head moulders/planers
- specifications:
 - template documents for recording outcomes of setting up and running multi-head moulders/planers
 - manufacturer instructions for setting up and running multi-head moulders/planers
 - work order with specific instructions for setting up and running multi-head moulders/planers
 - workplace procedures for setting up and running multi-head moulders/planers.

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

Links

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