

Unit of Competency CPCCJN3100 Process materials to produce components using static machines

Application

This unit of competency specifies the skills and knowledge required to use static machines for manufacturing processes of components, meeting all relevant requirements of Australian Standards, work health and safety (WHS), and Commonwealth and state or territory legislation.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of CPCCWHS1001 *Prepare to work safely in the construction industry* meets this requirement.

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

Prerequisite Unit

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry.

Elements and Performance Criteria

1. Plan and prepare.	<ul style="list-style-type: none">1.1 Read and interpret work instructions and plan sequence of work.1.2 Plan all work to comply with laws and regulations, Australian Standards, work health and safety (WHS) and environmental requirements, manufacturers' specifications, workplace requirements, drawings and specifications.1.3 Select tools and equipment, check for serviceability and rectify or report any faults.1.4 Select and use personal protective equipment (PPE) for each part of the task and as required for using each machine.1.5 Inspect workplace, assess hazards and apply risk controls, including required signage and barricades.1.6 Select materials required for task, calculate quantities, handle safely and prepare and position ready for use.
2. Select static machines and determine operation and safety requirements.	<ul style="list-style-type: none">2.1 Select types and functions of static machines for use in task.2.2 Determine methods of operation of machines from manufacturers' operating manuals and safe operating procedures.2.3 Locate cut-off switches and implement WHS requirements for guard attachment and cut-off switches in accordance with Australian Standards.2.4 Implement WHS requirements for personal protective equipment (PPE) associated with using machines.
3. Prepare machines for use.	<ul style="list-style-type: none">3.1 Determine and follow guarding and safety requirements for preparing and using each static machine.3.2 Set up machines for required operating process and setting with fences and guides locked in position in accordance with Australian Standards.
4. Operate machines.	<ul style="list-style-type: none">4.1 Follow machine start-up procedures to manufacturers' recommendations and

	<p>safe operating procedures.</p> <p>4.2 Feed material to machines following manufacturers' recommendations, safe handling procedures and safe operating procedures, including use of push blocks and sticks.</p> <p>4.3 Set up and hold material in place, ensuring correct hand position, for moving table operations following manufacturers' recommendations.</p> <p>4.4 Operate machines safely in accordance with designed capacity and purposes.</p> <p>4.5 Follow machine workplace shut-down procedures following manufacturers' recommendations.</p>
5. Maintain machine and attachments.	<p>5.1 Maintain machines by regular servicing to manufacturers' recommendations.</p> <p>5.2 Report faults to supervisor.</p> <p>5.3 Assist with fitting and securing cutters, blades and attachments, and recalibration following manufacturers' recommendations.</p>
6. Clean up.	<p>6.1 Clean up, meeting all legislative and workplace requirements for safety, waste disposal and materials handling.</p> <p>6.2 Clean, check and store cutters, blades and attachments following manufacturers' recommendations.</p>

Foundation skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and equivalent to CPCCJN3001 Process materials to produce components using static machines.

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCCJN3100 Process materials to produce components

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by using at least five of the following static machines in the production of a minimum of three different components:

- band saws
- buzzers (jointer/surface planer)
- spindle moulders
- tenon machine
- docking saws
- grinders
- mortisers
- multi-drill machine
- rip saws
- table sanders
- thicknessers
- panel saws
- vertical and horizontal drills.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- compliance requirements of the National Construction Code and Australian Standards relevant to processing materials to produce components
- workplace quality policies and standards relevant to processing materials to produce components
- safety requirements for processing materials to produce components
- types and uses of static machines:
 - o band saws
 - o buzzers (jointer/surface planer)
 - o spindle moulders
 - o tenon machine
 - o docking saws
 - o grinders
 - o mortisers
 - o multi-drill machine
 - o rip saws
 - o table sanders
 - o thicknessers
 - o panel saws
 - o vertical and horizontal drills
- types of tools and equipment required when using static machines
- common materials processed using static machines to produce components
- basic maintenance of static machines.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions and standards, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>