



Australian Government

CPCCJN3001 Process materials to produce components using static machines

Release: 1

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Modification History

Release 1.

This version first released with CPC Construction, Plumbing and Services Training Package Version 2.

Revised unit of competency. Replaces superseded equivalent CPCCJN3001A Use static machines.

Application

This unit of competency specifies the outcomes required to process materials using machines that are fixed to a set location. Materials to be processed may be acrylic, glass, laminates, metal, stone or timber.

The unit supports construction workers responsible for producing components for external or internal elements of buildings or fittings, such as wall units and benchtop units. This work is conducted off site and may include working with others and as a member of a team. It applies to residential and commercial componentry.

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

Pre-requisite Unit

Nil

Competency Field

Joinery

Unit Sector

Construction

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.

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|--------------------------|--|
| 1. Plan and prepare job. | 1.1. Job requirements are obtained, confirmed and applied to planning. |
|--------------------------|--|

- 1.2. Work area is inspected, conditions and hazards are identified, and **health and safety requirements** are confirmed with relevant personnel and applied to planning.
 - 1.3. Static machine is checked for serviceability according to job requirements, and faults are rectified using appropriate maintenance tools and equipment or reported before starting work.
 - 1.4. **Safe operating procedures for static machine** are reviewed and confirmed with relevant personnel, and applied to planning.
 - 1.5. **Materials** are identified and cutting list is prepared according to design specifications.
 - 1.6. Material quantities are calculated and materials are obtained, safely handled and located ready for use.
2. Prepare materials for processing.
 - 2.1. **Component** drawings are reviewed and component identity, face and edge are marked on each piece of material according to design specification.
 - 2.2. Jigs and templates relevant to the job are identified and applied, as required.
 - 2.3. Length and joint details of components are set out and marked on component material.
 - 2.4. Component marking and dimensions are checked before machining.
3. Process materials.
 - 3.1. Machine and fences or guides are set up for required operating process and setting is locked into position according to standard operating procedures.
 - 3.2. Machine start-up procedure is carried out according to manufacturer recommendations.
 - 3.3. Marked-up material is fed to machine, where applicable, according to manufacturer recommendations, and safe handling and standard operating procedures.
 - 3.4. Material is set up and held in place for mobile machine and moving table operations according to manufacturer

- recommendations.
- 3.5. Machine is operated within its designed capacity and purpose, and according to manufacturer specifications and health and safety requirements.
 - 3.6. Machine shut-down and switch-off procedures are carried out according to manufacturer recommendations and under supervisor instructions.
 - 3.7. Components are labelled and positioned for assembly according to job requirements.
4. Maintain machine and attachments.
 - 4.1. Machines are maintained through regular servicing and according to manufacturer operating manuals.
 - 4.2. Major faults are identified and reported to responsible supervisor.
 - 4.3. Minor faults are identified and corrected where applicable under supervision.
 - 4.4. Assistance is given as required when blades and attachments are fitted and secured, under supervisor instruction and according to manufacturer specifications.
 5. Clean up.
 - 5.1. Machine is cleaned and waste material disposed of safely under supervisor instruction and in line with workplace environmental requirements.
 - 5.2. Cutters, blades and attachments are cleaned, checked and stored under supervisor instruction.

Foundation Skills

This section describes the language, literacy, numeracy and employment skills essential to performance in this unit but not explicit in the performance criteria.

Skill

Performance feature

Numeracy skills to:

- interpret material quantities in component drawings.

- Oral communication skills to:
- enable clear and direct communication and sharing of information
 - use listening and questioning to identify and confirm requirements.
- Reading skills to:
- read and interpret machine operating manual and job specifications.
- Writing skills to:
- report equipment faults.
- Initiative skills to:
- respond to change and contribute to workplace responsibilities
 - respond to workplace challenges and put ideas into action
 - recognise minor faults and problems and take action to rectify them.
- Teamwork skills to:
- work with others to action machine maintenance tasks.

Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

- Health and safety requirements*** must include:
- emergency procedures, including:
 - evacuation
 - first aid
 - location and use of firefighting equipment
 - hazard identification and risk control procedures, including for handling hazardous materials and dangerous goods
 - risk assessment and treatments associated with:
 - lighting
 - work site visitors and the public
 - working in proximity to others
 - selection, correct fitting, and use of personal protective equipment (PPE) prescribed under legislation, regulations and workplace policies and practices

- selection and use of tools and equipment
- workplace environmental requirements.

Safe operating procedures for static machine must include:

- method of operation in line with manufacturer operating manuals
- health and safety requirements for:
 - guard attachments
 - cut-off switches
 - PPE to be used.

Static machines must include five or more of the following:

- band saws
- buzzers (jointers or surface planers)
- dimensional saws
- docking saws, including aluminium docking saws
- grinders
- mortisers
- multi-drill machines
- panel saws
- rip saws
- table sanders
- table routers
- thicknessers
- travelling beam saws
- vertical and horizontal drills.

Materials must include three or more of the following:

- acrylic or similar materials
- glass or similar materials
- manufactured board
- metal or similar materials
- natural or manufactured stone
- solid surfaces
- timber or similar materials.

Components must include:

- carcasses
- benches or counter tops
- drawers
- doors.

Unit Mapping Information

CPCCJN3001A Use static machines

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for CPCCJN3001 Process materials to produce components using static machines

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Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. The person must also:

- produce complete sets of components for two freestanding units, such as workstations or showcases
- produce components using a panel saw, docking saw, grinder and drill and at least one other static machine listed in the range of conditions
- process at least three different materials listed in the range of conditions.

During the above work, the person must:

- comply with health and safety regulations applicable to workplace and machine operations
- comply with organisational policies and procedures relating to carrying out machining operations, including quality assurance requirements
- identify and apply manufacturer recommendations when using machine
- identify and correctly apply guarding requirements for operating machine
- use correct set-up procedures for machine operations prior to use
- use correct start-up procedures for operating machines
- use safe and effective operation of machine
- use correct shut-down and switch-off procedures on completion of machining operation
- clean and maintain machine correctly
- place or remove cutters and blades safely and according to established procedures.

Knowledge Evidence

A person demonstrating competency in this unit must demonstrate knowledge of:

- types of components that can be produced using static machines
- types of construction materials to be processed and their characteristics
- procedures relating to basic maintenance of static machines
- contents of and terms used in job safety analyses (JSA) and safe work method statements (SWMS) for operating static machines

- material handling techniques relating to working with static machines
- types of static machines, and their application and operation
- workplace and equipment safety requirements relating to the use of static machines.

Assessment Conditions

Suitable assessment of performance requires:

- equipment:
 - static machines, as listed in the range of conditions
- materials:
 - as listed in the range of conditions
- specifications:
 - job drawings and specifications
 - SWMS
- physical conditions:
 - workshop with access to static machines
- relationships with team members and supervisor:
 - work is conducted individually under supervision
- timeframe:
 - according to job requirements.

Assessor requirements

As a minimum, assessors must satisfy the assessor requirements in the Standards for Registered Training Organisations (RTOs) current at the time of assessment.

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