Unit of Competency CPCCJN3003 Manufacture components for doors, windows and frames

Application

This unit of competency specifies the skills and knowledge required to manufacture components for doors, windows and frames, meeting all relevant requirements of the National Construction Code (NCC), 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.	1.1	Read and interpret work instructions and plan sequence of work.
	1.2	Plan all work to comply with laws and regulations, the National Construction Code (NCC), 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 report any faults.
	1.4	Select and use personal protective equipment (PPE) for each part of the task.
	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. Dress materials.	2.1	Check machines and cutting tools for safe and effective operation.
	2.2	Adjust machine settings for task requirements.
	2.3	Position and cut material, check for quality and rectify faults.
3. Shape materials.	3.1	Check spindles, cutting tools and jigs for safe and effective operation.
	3.2	Adjust spindle machine settings for task requirements.
	3.3	Feed material into machine and operate machine to shape material.
4. Join materials and produce components.	4.1	Set out materials for joining.
	4.2	Check joining machines, cutting tools and jigs for safe and effective operation.
	4.3	Adjust joining machine settings for task requirements.
	4.4	Operate machine to produce joints.
5. Finish components and	5.1	Check finishing and sanding machines for safe and effective operation and adjust for task requirements.

prepare for assembly.	5.2	Dry-assemble components, check for quality and consistency, and rectify faults.
	5.3	Sand and finish components, check for quality and consistency, and rectify faults.
6. Clean up.	6.1	Clean up, meeting all legislative and workplace requirements for safety, waste disposal and materials handling.
	6.2	Clean, check, maintain and store machines, tools and equipment and report any faults.

Foundation skills

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

Unit Mapping Information

Supersedes and is equivalent to CPCCJN3003A Manufacture components for doors, windows and frames.

Links

Companion Volume Implementation Guide:
https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad

Assessment Requirements for CPCCJN3003 Manufacture components for doors, windows and frames

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by machining, dry-assembling and finishing components for:

- a four-panelled door and door frame
- a four-light operable sash and frame.

In performing these tasks, the candidate must:

- prepare and assemble the following components:
  - door stops
  - jambs
  - mullion
  - panels
  - sills/threshold
  - styles
  - top, bottom and mid rail
  - glazing bars
- use the following machines:
  - band saws
  - docking saws
  - rip saws
  - panel saw
  - planing machines:
    - surface planer
    - thicknesser
  - shaping machines
  - joining machines:
    - mortising
    - tenoning
  - sanding machines:
    - linisher
    - wide belt/stroke.

Knowledge Evidence

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

- compliance requirements of the National Construction Code (NCC) and Australian Standards relevant to manufacturing door and window components
- workplace quality policies and standards relevant to manufacturing door and window components
- safety requirements for manufacturing door and window components

- processes and techniques used to manufacture door and window components, including to:
  - set out door and window components:
    - door stops
    - jambs
    - mullion
    - panels
    - sills/threshold
    - styles
    - top, bottom and mid rail
    - glazing bars
  - produce cutting lists
- material identification marking systems used when manufacturing door and window components
- properties, performance and limitations of different types of timber available for manufacturing doors and window components:
  - plastic covered timber-cored material
  - raw timber
- range, type and characteristics of materials used to manufacture door and window components
- types and uses of machines, tools and equipment required to manufacture door and window components:
  - band saws
  - docking saws
  - rip saws
  - panel saw
  - planing machines:
    - surface planer
    - thicknesser
  - shaping machines
  - multi-head moulding machines
  - joining machines:
    - mortising
    - tenoning
    - horizontal borer
  - sanding machines:
    - disk sander
    - linisher
    - wide belt/stroke
- processes for operating machines:
  - setting up processes
  - safety checking, fault finding and rectification
  - monitoring machine processes
  - cleaning and maintaining machines in accordance with manufacturers' specifications.

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

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