



Australian Government

Assessment Requirements for CPCSHP3001 Fabricate shopfitting components using CNC machines

Release: 2

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Modification History

- Release 2 Updated reference to general construction induction training program.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCCSH3001 Fabricate shopfitting components using CNC machines. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by selecting, programming and using a computer numerically-controlled (CNC) machine to fabricate components as outlined below:

- select, edit, produce and trial a CNC machine program
- use a CNC machine to fabricate components for:
 - one point of sale counter with a minimum size of 2.4 metres in length
 - one showcase with a minimum size of 2.0 metres high and 1.8 metres wide, with doors and glass
 - and one of the following, which must include a stone or acrylic surface:
 - cabinet with a minimum size of 750 mm high and 2.4 metres wide
 - wall unit with shelves and a minimum size of 1.8 metres high and 1.2 metres wide
 - workstation with a 90-degree return
- utilise milling, boring and pocketing operations during the fabrication process of the above shopfitting components.

Knowledge Evidence

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

- shopfitting regulations, codes and standards relevant to fabricating components on a CNC machine
- organisation's quality assurance requirements relating to fabricating components on a CNC machine
- sustainable shopfitting practices
- CNC machine manufacturer specification
- key features of working drawings and specifications

- workplace processes and procedures, and environmental requirements
- fabrication methods, types and uses of shopfitting components for:
 - cabinets
 - counters
 - showcases
 - wall units
 - workstations
- characteristics, applications and limitations of materials used for shopfitting components:
 - acrylic
 - glass
 - laminates
 - manufactured board
 - solid timber
- workplace safety:
 - job safety and environmental analysis (JSEA)
 - safe work method statements (SWMSs)
 - safety data sheets (SDSs)
 - hazardous manual tasks
 - exposure to excessive noise
 - exposure to dust
 - electrical safety
 - emergency procedures (evacuation, location and use of firefighting equipment, first aid)
 - safety of public, visitors and others in the workplace
- processes and techniques for fabricating shopfitting unit components:
 - measuring relevant to dimensions and shapes
 - materials take-off
 - production scheduling
 - quality requirements and completion timeframes
- functional and operational features of tools and equipment, including battery operated tools
- CNC machine programming:
 - common conventions used in CNC
 - purpose of the zero point
 - axes of movement
 - data input to achieve job requirements
 - range of software applications
 - sequence of machine operations
 - correction of tool data to match selected tool
 - reasons for selecting tool paths:

- tool cutter rotational direction and speed
- lead in and lead out types
- testing and proving the CNC program
- procedures for editing and effects on finished products
- induction and safe operation of CNC equipment:
 - guarding and safe use of woodworking machinery
 - start-up and shutdown procedures
 - reduced speed dry run to check functions and alarms
 - faults and problems and actions to rectify
- types, functions and uses of CNC machinery.

Assessment Conditions

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

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to:

- relevant shopfitting regulations, codes and Australian Standards
- current workplace procedures, workplace safety and environmental documentation
- shopfitting drawings and specifications, organisational policies, procedures and equipment to undertake the performance criteria and assessment requirements
- digital technology, devices and software to program equipment and to develop and save documents electronically.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>