



Australian Government

Assessment Requirements for CPCCSG3012 Fabricate signs

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 non-equivalent CPCCSI2005A Fabricate signage and CPCCSI3002A Use rotary router.

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit, and must fabricate three different signs as follows:

- a lower case letter 'b' in Clarendon font, using acrylic sheeting, with a minimum 50 mm return and 300 mm height
- a letter 'D' in Helvetica font, using stainless steel or aluminium, with a minimum 50 mm return and 300 mm height
- an aluminium light box with a minimum 300 mm acrylic front and back panel with a 100 mm edge; with the front and back of the light box being acrylic with a minimum of 4.5 mm thickness.

In doing the above work, the person must use at least three of the following tools and equipment:

- acrylic glues and heating equipment
- battery drill
- CAD/CAM routing equipment
- glass marking pencil
- guillotine
- metal ruler or tape measure
- welding tools and equipment
- scribe
- square
- surface cutting equipment.

For each sign to be fabricated, the person must:

- identify the job requirements for the sign, noting instructions from design specifications or client discussions, including durability and longevity requirements, purpose and location for final sign, size and material requirements
- select and prepare tools, equipment and materials to fabricate the sign according to client requirements

- select, correctly fit, and use personal protective equipment (PPE) relevant to the task
- accurately calculate required material quantities
- safely and accurately measure and cut materials to size, minimising waste
- fabricate and assemble the sign according to client requirements, maintaining safety and quality standards
- trim and clean the sign, check for imperfections, and rectify any faults prior to finalising sign
- store sign safely, ready for client inspection and installation
- clean the work area and dispose of, or identify for recycling and re-use, any waste materials.

Knowledge Evidence

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

- fabrication techniques used when working with acrylic
- folds and tolerances of light weight metals used in fabricating signs
- techniques for using rotary routers and other tools when cutting materials used in fabricating signs
- types, characteristics and applications of high and medium impact acrylic
- statutory and regulatory authority requirements, particularly those relating to:
 - removal of waste products
 - storage of chemicals and materials
 - work health and safety relevant to fabricating signs
- techniques used to weld aluminium and galvanised steel up to 3 mm in thickness
- types, uses and limitations of:
 - different extrusion systems used in sign manufacture
 - modular directory systems used in sign manufacture
- purpose and application of the following when using tools, equipment and materials to fabricate signs:
 - safety data sheets (SDS)
 - safe work method statements (SWMS)
- use of manufacturer specifications when using tools, equipment and materials to fabricate signs.

Assessment Conditions

Suitable assessment of performance requires:

- equipment:
 - tools and equipment as specified in the performance evidence
- materials:
 - acrylic sheets
 - stainless steel or aluminium sheeting as specified by the task

- PPE: gloves and safety glasses
- specifications:
 - client brief or work instructions detailing job specifications of sign to be fabricated, including size, purpose, colour, material selection, durability and quality requirements of final sign
 - work instructions
 - manufacturer instructions and specifications for tools, equipment and materials used in fabricating signs
 - relevant SDS
- physical conditions:
 - workshop with suitable lighting and facilities for the fabrication of signs
- relationship with client:
 - check and confirm job requirements
- relationships with team members:
 - work may be conducted alone or as part of a team
- 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.

Links

Companion Volume implementation guides are found in VETNet -

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