



**Australian Government**

# **CPCCSG3012 Fabricate signs**

**Release: 1**

# CPCCSG3012 Fabricate signs

## 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.

## Application

This unit of competency specifies the outcomes required to fabricate signs using acrylic sheets and metal framing.

Fabricated signs are used for a range of purposes, including light boxes, point of sale product trays, monoliths, pylons and individual letters.

The unit supports sign manufacturers who fabricate custom-made signs in response to client design requirements.

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

## Pre-requisite Unit

Nil

## Competency Field

Signs and graphics

## 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.

- |   |                     |     |  |
|---|---------------------|-----|--|
| 1 | Plan and prepare to | 1.1 | <b><i>Job requirements</i></b> are identified from work instructions and client briefs, confirmed, and applied to planning and |
|---|---------------------|-----|--|

fabricate sign.		preparation.
	1.2	Client-approved design specifications are sourced and confirmed.
	1.3	<b>Tools and equipment</b> are selected, checked for serviceability according to manufacturer recommendations, and any faults are rectified or reported before starting work.
	1.4	Selected tools and equipment are connected and configured ready for operation.
	1.5	Materials are selected and required quantities calculated.
	1.6	Required materials are sourced and checked to be free of imperfections.
	1.7	Specialist skills required to ensure structural integrity of fabricated sign are identified and sourced.
	1.8	<b>Health and safety requirements</b> are identified and planned according to schedule of tasks.
2	Manufacture sign elements.	2.1 Cutter types and their applications are identified for the specified job.
		2.2 Sourced materials are cut according to design specifications using CAD/CAM cutting tools and equipment and minimising waste.
		2.3 Light weight metals are formed according to design specifications using tools and equipment according to job requirements.
		2.4 Heating tools and equipment are used to form acrylic sign components safely and to job specifications.
3	Assemble and secure sign.	3.1 Fastenings and fixings are securely attached to sign according to job specifications.
		3.2 Sign is correctly assembled using fastenings, fixings and techniques.

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|---|--------------|-----|---|
| 4 | Finish sign. | 4.1 | Sign is trimmed and finished to required quality standards and client expectations.   |
|   |              | 4.2 | Sign is checked for accuracy and quality against client requirements and design specifications, and imperfections are rectified.            |
|   |              | 4.3 | Structural integrity of sign is tested by specialists and confirmed according to job requirements.  |
|   |              | 4.4 | Finished sign is cleaned for final presentation and stored safely, for collection or installation.  |
|   |              |     |   |
| 5 | Clean up.    | 5.1 | Work surface area is cleaned and waste materials are sorted and removed according to statutory and regulatory authority requirements.       |
|   |              | 5.2 | Tools and equipment, including personal protective equipment (PPE), are cleaned, maintained and stored according to workplace requirements. |

## 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
Learning skills to:	<ul style="list-style-type: none"><li>respond to feedback on meeting client requirements and quality expectations when fabricating signs.</li></ul>
Numeracy skills to:	<ul style="list-style-type: none"><li>perform measurements to inform calculations of materials required to fabricate signs.</li></ul>
Oral communication skills to:	<ul style="list-style-type: none"><li>clarify job requirements and expectations with client and colleagues.</li></ul>
Reading skills to:	<ul style="list-style-type: none"><li>identify and interpret manufacturer specifications for tools, equipment and materials used in fabricating signs</li><li>read and interpret client briefs and work instructions.</li></ul>

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**

Writing skills to:

- report faults in tools and equipment.

## 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.

***Job requirements*** must include:

- type of fabricated sign to be manufactured
- timeframes for production.

***Tools and equipment*** must include:

- CAD/CAM software appropriate for cutting materials
- routing systems.

***Health and safety requirements*** must include:

- selection, correct fitting, and use of PPE prescribed under legislation, regulations and workplace policies and practices
- emergency procedures, including:
  - evacuation
  - first aid
  - location and use of firefighting equipment
- hazard identification and risk control procedures
- contents of and terms used in safety data sheets (SDS) and safe work method statements (SWMS) for the safe use of tools and equipment
- workplace environmental requirements.

## Unit Mapping Information

No equivalent unit.

## Links

Companion Volume implementation guides are found in VETNet -

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