

# COGSIGN32

## Signage - produce etched products



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### Overview

This unit deals with the following:

1. Produce etched products

During this work you must take account of the relevant operational requirements and safe working practices AS THEY APPLY TO YOU.

Previous Version: Unit 3.12 National Occupational Standards in Signmaking (CWP1)

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### Performance criteria

- You must be able to:*
- P1 select and obtain the necessary resources for etching the materials to the specified requirements, including suitable PPE (Personal Protective Equipment)
  - P2 identify required template shapes for masking, measure and where necessary, cut and then position on the material to be etched
  - P3 identify any defects/problems with the surface to be etched prior to operation and take the appropriate action
  - P4 ensure that the areas to be etched are identified and pre-marked using an accepted method and protect the surrounding areas from damage
  - P5 select the correct etching agent and ensure it is suitable to meet the specification
  - P6 perform the etching operation according to specification following quality procedures
  - P7 monitor and control the etching operation and identify any faults, variations and/or problems that occur
  - P8 make any necessary adjustments within the limits of your authority
  - P9 report any faults, variations and/or problems that you cannot solve and/or are not your responsibility to the relevant person
  - P10 remove and dispose of waste materials safely using an approved method
  - P11 deal appropriately with etched products and complete any necessary documentation
  - P12 follow relevant health and safety and environmental requirements and legislation at all times

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### Knowledge and understanding

*You need to know and understand:*

- K1 how to determine equipment, tools, materials, techniques and methods needed to complete the activity
- K2 how to select and use appropriate resources i.e., equipment, tools, materials, techniques and methods to etch materials and products
- K3 how to identify and determine the appropriateness of PPE (Personal Protective Equipment) for work activities, to include equipment to protect head, trunk, hands and feet
- K4 how to identify and select masking materials appropriate for the work to be completed and what the consequences are of not using appropriate masking materials
- K5 how to accurately measure and draw shapes onto a suitable masking material
- K6 how to cut and position masking shapes
- K7 the types of defects and how to identify and rectify them
- K8 what are acceptable pre-marking methods
- K9 what the specified requirements and positioning and quality tolerances are and why these are important
- K10 what is regarded as acceptable quality
- K11 why etching agents are used and how and when to use them
- K12 how to perform and monitor the etching operation
- K13 what faults, variations or problems may occur in the etching operation
- K14 how to make necessary adjustments within your permitted authority
- K15 who are the relevant personnel
- K16 what is regarded as waste and how to minimise it and remove it following approved methods
- K17 how to deal appropriately with etched products
- K18 what documentation is necessary
- K19 what legislation and organisational codes of practice are relevant
- K20 what are the consequences of not following legislation and organisational requirements
- K21 what health and safety and environmental requirements and legislation are relevant and how to follow them
- K22 what are the consequences to you and to others of not following health and safety and environmental legislation

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### Additional Information

#### Glossary

##### **Types of Surface Defect**

Visual, tactile (touch)

##### **Types of Rectification Methods**

Manual, automated

##### **Masking Methods**

Physical, photographic

##### **Etching Agents or Methods**

Chemical, abrasive

##### **Etching Equipment**

Sealed liquid, sealed air

##### **Relevant Personnel**

Line manager, supervisor, team leader etc.

##### **Relevant Health and Safety and Environmental Requirements**

What your responsibilities are in respect of health and safety and environmental requirements and legislation, regulations, safe working practices, local, national and organisational/site specific procedures

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**Suite** Signmaking

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