



Australian Government

Department of Education, Employment and Workplace Relations

CPCCSI3006A Apply gilding to signage

Release: 1

CPCCSI3006A Apply gilding to signage

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit of competency specifies the outcomes required to prepare background surfaces; masking, drafting and applying gilding to lettering, shapes, heraldic and other decorative forms of signage.

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

Application of the Unit

Application of the unit

This unit of competency supports the achievement of skills and knowledge to gild signs and related materials, and includes working with others and as a member of a team.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Prerequisite units

CPCCOHS2001A

Apply OHS requirements, policies and procedures in the construction industry

Employability Skills Information

Employability skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare work.	1.1. Quality assurance requirements of signage operations are recognised and adhered to. 1.2. Safety (OHS) requirements in accordance with application tasks and workplace operations are recognised and adhered to. 1.3. Job requirements are identified from drawings, specifications, instructions and client briefs. 1.4. Specifications, drawings and instructions interpreted and job requirements and sequence, determined. 1.5. Layout set out to scale using setting out techniques applicable to sign design. 1.6. Gilding materials product range is assessed and selected in accordance with job requirements and relevant Australian standards. 1.7. Tools and equipment and materials are selected to carry out tasks consistent with job requirements. 1.8. Substrates are identified and prepared in accordance with planned material application. 1.9. Routine maintenance requirements of equipment are identified and implemented in accordance with workplace and quality assurance procedures. 1.10. Potential material shrinkage is determined to ensure quality of completed work.
2. Identify and draw to scale lettering and decorative forms of signage.	2.1. Drafted designs are set out and drawn to appropriate scale and transferred to prepared surface using direct and indirect layout methods. 2.2. Decorative process is applied to create desired finish to specifications.
3. Use gilding tools and equipment.	3.1. Tools and equipment are selected for cutting and shaping process. 3.2. Materials are safely held in correct position ready for cutting and shaping operation.
4. Apply water gilding to signage.	4.1. Gilding material is cut to required size and shape as specified and sign surface is prepared to receive gilding. 4.2. Appropriate size is mixed, with colour added as designed and applied to prepared surface. 4.3. Gilding material is applied to surface and excess material is trimmed and removed. 4.4. Appropriate cleaning procedure and materials are

ELEMENT	PERFORMANCE CRITERIA
	selected and applied to gilded sign surface.
5. Apply surface gilding to signage.	5.1. Size is applied carefully to surface using appropriate application techniques to contain within design. 5.2. Gilding material is applied to size using appropriate rubbing techniques, ensuring no gaps and design shape is fully covered. 5.3. Applied gilding leaf is burnished to ensure loose particles are removed. 5.4. Design shape is trimmed carefully where applicable, and appropriate cleaning procedure and materials are selected and applied to clean the gilded and surrounding surface.
6. Clean up finished gilded signage.	6.1. Sign and surrounding surface environment/area are cleaned and waste materials removed in accordance with <i>statutory and regulatory authority requirements</i>. 6.2. Re-usable and recyclable materials are salvaged and stored. 6.3. Tools and equipment, including personal protective equipment, are cleaned, maintained and stored.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

Required skills for this unit are:

- ability to recognise procedures, respond to change and contribute to workplace responsibilities, such as current work site environmental and sustainability frameworks or management systems
- apply gilding operations:
 - cutting
 - melting
 - shaping
- communication skills to:
 - determine requirements
 - enable clear and direct communication, using questioning to identify and

REQUIRED SKILLS AND KNOWLEDGE

- confirm requirements, share information, listen and understand
- follow instructions
- read and interpret:
 - charts and hand drawings
 - job drawings
 - manufacturer specifications and instructions
 - organisational work specifications
- report faults
- use and interpret non-verbal communication
- use language and concepts appropriate to cultural differences
- draft design of sign to scale
- innovation skills to select appropriate tools and equipment, respond to workplace challenges and put ideas into action
- organisational skills, including the ability to plan and set out work
- prepare surfaces
- problem solving skills to recognise, and take action to rectify, minor faults and problems
- requirements and instructions issued by authorised organisational or external personnel
- teamwork skills to be able to coordinate with others, action tasks and relate to people from a range of social, cultural, ethnic backgrounds and with varying physical and mental abilities
- transfer design to location.

Required knowledge

Required knowledge for this unit is:

- design and layout of signs
- design transfer methods
- finishing techniques for gilding and gilded surfaces
- gilding materials and their characteristics
- gilding techniques
- handling materials relevant to gilding operations
- identification of dimensions, symbols, abbreviations and key features of signage
- job safety analysis (JSA) and safe work method statements
- material safety data sheets (MSDS)
- measuring and setting out relevant to layout of signs
- preparation of surfaces for gilding
- relevant Australian and New Zealand standards, and:
 - manufacturer specifications
 - OHS requirements

REQUIRED SKILLS AND KNOWLEDGE

- other applicable codes or standard operating procedures relevant to the sector
- statutory and regulatory authority requirements, particularly those relating to:
 - removal of waste products
 - storage of chemicals and materials
- terminology and definitions used in signage
- traditional and contemporary font styles
- types and characteristics of tools and equipment used to apply water gilding
- types of metal leaf used for gilding.

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

This unit of competency could be assessed in the workplace or a close simulation of the workplace environment, provided that simulated or project-based assessment techniques fully replicate construction workplace conditions, materials, activities, responsibilities and procedures.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

A person who demonstrates competency in this unit must be able to provide evidence of:

- understanding and applying:
 - principles of surface preparation and application of gilding
 - construction of alphabets
 - theory of letter spacing
- sound techniques in preparing sign surface to receive gilding
- sound and accurate techniques to produce design to sign and gilding requirements.

Context of and specific resources for assessment

This competency is to be assessed using standard and authorised work practices, safety requirements and environmental constraints.

Assessment of essential underpinning knowledge will usually be conducted in an off-site context.

Assessment is to comply with relevant regulatory or Australian standards' requirements.

Resource implications for assessment include:

- an induction procedure and requirement
- realistic tasks or simulated tasks covering the mandatory task requirements
- relevant specifications and work instructions
- tools and equipment appropriate to applying gilding
- support materials appropriate to activity
- workplace instructions relating to applying gilding
- material safety data sheets

EVIDENCE GUIDE

- research resources, including industry-related systems information.

Reasonable adjustments for people with disabilities must be made to assessment processes where required. This could include access to modified equipment and other physical resources, and the provision of appropriate assessment support.

Method of assessment

Assessment methods must:

- satisfy the endorsed Assessment Guidelines of the Construction, Plumbing and Services Training Package
- include direct observation of tasks in real or simulated work conditions, with questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application
- reinforce the integration of employability skills with workplace tasks and job roles
- confirm that competency is verified and able to be transferred to other circumstances and environments.

Validity and sufficiency of evidence requires that:

- competency will need to be demonstrated over a period of time reflecting the scope of the role and the practical requirements of the workplace
- where the assessment is part of a structured learning experience the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice, with a decision on competency only taken at the point when the assessor has complete confidence in the person's demonstrated ability and applied knowledge
- all assessment that is part of a structured learning experience must include a combination of direct, indirect and supplementary evidence.

Assessment processes and techniques should as far as is practical take into account the language, literacy and numeracy capacity of the candidate in

EVIDENCE GUIDE

relation to the competency being assessed.

Supplementary evidence of competency may be obtained from relevant authenticated documentation from third parties, such as existing supervisors, team leaders or specialist training staff.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Quality assurance requirements include:

- attention to work specifications
- Australian and international standards relevant to the sign industry
- control of handling procedures
- internal company quality assurance policy and risk management strategies
- procedures for installing and finishing
- quality of materials
- use and maintenance of equipment
- workplace operations and procedures.

Safety (OHS) is to be in accordance with state and territory legislation and regulations and project safety plan and may include:

- emergency procedures, including extinguishing fires, organisational first aid requirements and evacuation
- hazard control
- hazardous materials and substances
- organisational first aid
- PPE prescribed under legislation, regulations and workplace policies and practices
- safe operating procedures, including the conduct of operational risk assessment and treatments associated with:
 - concealed services (water, power and gas)

RANGE STATEMENT

	• lighting • restricted access barriers • traffic control • work site visitors and the public • working at heights • working in confined spaces • working in proximity to others • use of firefighting equipment • use of machines • use of tools and equipment • workplace environmental requirements and safety.
<i>Job requirements</i> include:	• assessment of conditions and hazards • determination of work requirements • equipment defect identification • safety plans and policies • work site inspection.
<i>Gilding materials</i> include:	• enamel paints or suitable paints for glass • loose leaf metals, such as: • gold • silver • aluminium • Dutch metal • copper • variegated leaf • water-based size.
<i>Relevant Australian standards</i> include:	• regulatory requirements • standard drawings and details • urban design manuals.
<i>Tools and equipment</i> include:	• cotton wool or velvet • gelatine • gilder's pad • gilding knife • gilding mop • gilding mug • gilding tip • heating pots • stove.

RANGE STATEMENT

- Substrates*** include:
- glass
 - metal
 - timber.
- Sign surfaces*** include:
- glass
 - painted
 - sanded
 - sealed
 - stained.
- Statutory and regulatory authority requirements*** include:
- federal, state and local authorities administering applicable Acts, regulations and codes of practice and also can pertain to:
 - removal of waste products
 - storage of chemicals.

Unit Sector(s)

Unit sector Construction

Co-requisite units

Co-requisite units Nil

Functional area

Functional area