



Australian Government

Department of Education, Employment and Workplace Relations

CUVGLA401A Experiment with techniques to produce glasswork

Release: 1

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Modification History

Version	Comments
CUVGLA401A	This version first released with <i>CUV11 Visual Arts, Craft and Design Training Package version 1.0</i>

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to proactively experiment and innovate with various glassworking techniques and ideas to develop an individual style or voice.

Application of the Unit

People with a command of glassworking techniques apply the skills and knowledge in this unit. They often produce work at a pre-professional level for sale in a range of outlets, such as markets and fairs.

At this level, work is undertaken independently with supervision and guidance as required.

Licensing/Regulatory Information

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

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Element	Performance Criteria
<i>Elements describe the essential outcomes of a unit of competency.</i>	<i>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.</i>

Elements and Performance Criteria

1. Develop proficiency with a range of glassworking techniques and media	1.1 Evaluate the potential for new approaches to glassworking based on capabilities of techniques already used 1.2 Adapt or introduce new tools, equipment and materials to achieve different effects 1.3 Extend the capabilities of glassworking techniques through experimentation 1.4 Take account of the safety and sustainability considerations for different techniques and media
2. Develop ideas for glasswork	2.1 Articulate creative and other goals for glasswork 2.2 Research, adapt and use relevant ideas and approaches from other practitioners with consideration of intellectual property requirements 2.3 Apply knowledge of different glassworking techniques to inform ideas 2.4 Allow techniques and ideas to work together to inform each other 2.5 Consider the professional potential and other criteria for work when developing ideas 2.6 Refine and confirm ideas based on experimentation, research and collaboration with others
3. Organise glassworking resources	3.1 Assess specific resource requirements for the chosen work 3.2 Research and access potential sources of supply for glassworking resources 3.3 Evaluate cost and other constraints that impact on the development of work 3.4 Evaluate and respond to presentation considerations for finished glasswork 3.5 Set up or coordinate resource requirements according to safety and other workplace requirements
4. Create finished glasswork	4.1 Create glasswork, using techniques and media selected from research and experimentation 4.2 Review and refine ideas and approaches based on ongoing experience with the production of work 4.3 Use safe and sustainable work practices throughout the production of glasswork 4.4 Document and record the development of the work and the

	research and ideas that inform it
5. Evaluate own glasswork	5.1 Reflect on own work in terms of conceptual development and technical execution 5.2 Identify areas for future improvement especially in terms of own skill development 5.3 Discuss completed work with others and respond positively to feedback

Required Skills and Knowledge

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

Required skills

- communication skills to:
 - discuss ideas and techniques in own work
 - create a record of the glasswork
- initiative and enterprise skills to:
 - experiment with techniques to enhance final glasswork
 - apply critical thinking and analytical skills when developing ideas for glasswork
- learning skills to:
 - refine and improve a range of techniques
 - evaluate quality of own work and identify ways to enhance own practice
- literacy skills to undertake research about the work of other painters and other arts practitioners
- numeracy skills to:
 - evaluate resource costs
 - calculate material requirements
- planning and organising skills to plan work tasks and resources
- problem-solving skills to identify and resolve technical and conceptual issues in glasswork
- technology skills to use the internet as a research tool.

Required knowledge

- role of experimentation in developing and refining ideas for glassworking and how this relates to the development of an individual style or voice
- ways to adapt, extend and combine the capabilities of a wide range of glassworking materials and techniques
- physical properties and capabilities of an extended range of materials and tools used in glassworking
- characteristics of different materials under different treatments and the potential of these characteristics to achieve different effects
- formal elements and principles of design and how they may be used, adapted and challenged in glassworking
- research methodologies used by artists
- historical and theoretical contexts for glassworking and how they may be used to inform individual practice
- sources of raw, part-processed and processed glassworking materials
- sources of other resources needed in a professional glassworking practice
- intellectual property issues and legislation to be considered by independent arts practitioners
- sustainability considerations for the professional operation of a glassworking practice
- OHS requirements for the set-up and operation of glassworking work space.

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	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Evidence of the ability to: - develop ideas and techniques through a process of research and experimentation - produce multiple finished glass items or a single major work that demonstrate a command of techniques - apply knowledge of glassworking techniques, equipment and materials and the ways they may be adapted and combined - use safe and sustainable work practices.
Context of and specific resources for assessment	Assessment must ensure access to: equipment, materials and tools used to produce glasswork.
Method of assessment	A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit: - evaluation of technical execution of work pieces produced by the candidate - direct observation of glassworking in progress, including exploration of, and experimentation with, techniques - questioning and discussion about candidate's intentions and the work outcome - review of portfolios of evidence - review of third-party reports from experienced practitioners. Assessment methods should closely reflect workplace demands (e.g. literacy) and the needs of particular groups (e.g. people with disabilities, and people who may have literacy or numeracy difficulties, such as speakers of languages other than English, remote communities and those with interrupted schooling).
Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example: CUVPRP401A Realise a creative project.

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.

<i>Glassworking</i> may include:	• architectural glasswork • functional items: • bowls • platters • vases • installation work • sculptural forms • vessels • wearable pieces: • head and neck pieces • brooches.
<i>Techniques</i> may include:	• assemblage • blowing • casting • colouring • engraving • etching • fusing • hot forming • lampworking • leadlight and copperfoil • pâte de verre • sandblasting • slumping.
<i>Tools</i> may include:	• brushes • cutting aids and guides • hand glass cutters • hand polishing pads • modelling and carving tools • moulds for hot glasswork • piping tools • pliers • rulers

	• slumping moulds.
Equipment may include:	• compressor • drill • electric kilns • engravers • glass cutting machinery: • band saw • cut-off saw • glass cutting table • grinding and polishing equipment: • bevel grinder • flatbed grinder • finishers • kiln furniture • light table • personal protective equipment (PPE), including: • dust masks • gloves and wrist gauntlets • respirators • safety glasses • programmable kiln controllers • sandblaster • slumping moulds.
Materials may include:	• clay • clear furnace glass for hotworking as well as compatible coloured glass for hotworked overlays and inclusions • materials suitable for inclusions: • selected metals and minerals • plant materials • other colouring agents: • lustres • metallic salts • plaster • polishing powders: • cerium oxide • pumice • range of colours suitable for both low and high temperatures as well as for layered glass, cast glass and stained, painted and printed surfaces • refractory board suitable for making moulds • refractory fillers:

	• sand • silica • refractory release agents: • alumina • bead release • graphite • kaolin • sculpture wax • selection of: • clear and coloured compatible casting glass • clear and coloured compatible glass for lampworking • clear and coloured compatible sheet glass for kiln formed work • clear and coloured sheet glass for leadlighting/copperfoil work • texturing materials.
Safety and sustainability considerations may include:	• federal, state and territory legislation, regulations and standards • personal protection • recycling • safe disposal of waste.
Research may involve:	• approaching individuals with relevant expertise • attending lectures and talks • conducting material and technical experiments and tests • seeking out information in books, journals and newspapers • searching the internet • visiting exhibitions and museums.
Ideas may be influenced by:	• artistic aspirations • current capability with techniques • historical and theoretical contexts • subject matter or theme for the work, such as: • built environment • land and place • natural world • political, cultural and social issues • the body • spiritual concerns.
Intellectual property requirements may relate to:	• extent to which the work may be used • procedures for seeking permission to use the work of others, including systems for the administration of copyright

	• protocols for the adaptation of work by others.
Professional potential may relate to:	• cost of production • existence of an established market • how to promote or sell the work • market trends • professional development.
Criteria may relate to:	• client and user expectations • duration • environment in which glassworks will be viewed • materials • quality of final product • techniques • timelines • tools.
Process followed to refine ideas may include:	• adjustment to subject matter or theme • adjustment to take account of elements and principles of design • adjustment to use extended capabilities of the technique.
Sources of supply may include:	• commercial outlets • found objects and materials • manufacturing or factory waste • nature.
Cost and other constraints may relate to:	• availability of materials and tools • budgeting • sponsorship • timeframe.
Presentation considerations may include:	• availability of space • client preference • cost • practical considerations • presentation context • timeframe.

Unit Sector(s)

Visual communication – glass