



Australian Government

CUAGLA503 Refine kiln cast glass techniques

Release: 1

CUAGLA503 Refine kiln cast glass techniques

Modification History

Release	Comments
Release 1	This version first released with CUA Creative Arts and Culture Training Package version 2.0.

Application

This unit describes the skills and knowledge required to design and produce functional or artistic glass objects using kiln casting techniques. It involves research to develop designs and refinement of kiln casting technique through experimentation and dedicated practice.

It applies to those visual artists who are highly skilled in the specific techniques for kiln cast glasswork and who realise an individual professional style and a coherent body of creative work. They work with a high level of independence seeking mentoring and guidance as required.

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

Unit Sector

Visual communication – glass

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Develop ideas for kiln cast glass	1.1 Evaluate creative and professional opportunities offered by kiln cast glasswork for own approach to work 1.2 Research ideas for kiln cast glasswork from historical and contemporary references 1.3 Research, adapt and use relevant ideas and approaches from other practitioners and comply with intellectual property requirements 1.4 Refine ideas and create designs for a range of kiln cast glass objects to meet professional practice needs

ELEMENT	PERFORMANCE CRITERIA
2. Establish requirements for kiln cast glass	2.1 Investigate specific safety and sustainability issues for kiln cast glasswork to establish, follow and monitor safe work practices during production of work 2.2 Set up work space, equipment, tools and materials according to safety requirements 2.3 Plan firing schedules for different forms 2.4 Investigate and test processes for kiln cast glasswork on samples or practice pieces
3. Kiln cast glass forms	3.1 Determine and use suitable forming methods and techniques for a range of objects 3.2 Make kiln cast glass objects to design requirements for form and function 3.3 Define the form using glassworking techniques 3.4 Prepare articles for further surface treatment and finishing 3.5 Use appropriate finishing techniques on kiln cast objects
4. Refine kiln cast glass techniques	4.1 Develop increasing confidence and skill through practice and experimentation with kiln glass objects 4.2 Proactively identify and resolve technical problems in kiln cast glass projects based on developing expertise 4.3 Evolve ideas and professional skill with kiln glass objects through ongoing experimentation with technique 4.4 Develop own ways of working with kiln cast glass techniques to create individual style 4.5 Create a coherent body of kiln cast glasswork that shows command of selected glassworking techniques
5. Evaluate own kiln cast glasswork	5.1 Evaluate development of own technique for kiln cast glasswork with others and seek feedback 5.2 Identify ways to further develop kiln glass techniques as part of professional glass practice and build ideas into future work

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.2, 1.3	Interprets and evaluates complex and unfamiliar information to support design ideas
Oral Communication	5.1	Uses questioning and active listening techniques to elicit feedback and confirm understanding
Navigate the world of work	1.3, 2.1, 2.2	Takes responsibility for compliance with legal, safety and sustainability practices associated with creative work
Interact with others	5.1	Encourages contribution of creative, innovative and technical ideas from other artists
Get the work done	1.1-1.4, 2.3, 2.4, 3.1-3.5, 4.2, 4.4, 4.5	- Develops broad, flexible conceptual plans to develop own artistic knowledge, techniques and professional style, identifying and responding to issues as they arise - Takes responsibility for completing own research and creative works from design inception to realisation, managing own time and productivity to sequence stages - Manages own decisions about refinement of ideas and techniques through research and selection according to interest - Resolves problems with technique through practice, experimentation and analysis - Creates opportunities to use a more innovative approach and personal style

Range of Conditions

This section specifies different 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.

Firing schedules must take into account	- complexity of the form and its mould - glass manufacturer's recommended annealing schedules - material condition of the mould - number of moulds in the kiln - thickness of the form - type of glass being used - type of kiln being used
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	whether mould is open or closed.
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
CUAGLA503 Refine kiln cast glass techniques	CUVGLA503A Refine kiln cast glass techniques	Updated to meet Standards for Training Packages and clarify intent.	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1db201d9-4006-4430-839f-382ef6b803d5>

Assessment Requirements for CUAGLA503 Refine kiln cast glass techniques

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Performance Evidence

Evidence of the ability to:

- research an extensive range of historical and contemporary kiln cast glasswork and techniques to inform own designs
- refine the use of kiln casting techniques through a process of thorough experimentation and practice to create a coherent body of kiln cast glasswork which:
 - shows a command of chosen techniques in both single works and multiples of related works
 - demonstrates the development of an individual style
 - supports own ideas for work.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- describe intellectual property requirements relevant to producing glassworks
- summarise the main aspects of historical and contemporary kiln cast glassworking practice and how they can inform own design ideas
- describe, for the elements and principles of design, the detailed characteristics, complex interrelationships, use in kiln cast glasswork and how they may be challenged
- describe the features and use of:
 - open moulds
 - investment (closed) moulds
 - flat, tall and hollow forms
 - thin and thick casts
 - simple and complex forms
 - explain the factors to consider when planning firing schedules

- explain the features of these kiln casting techniques and how they work to achieve different effects in kiln cast glasswork:
 - structural support for large scale work
 - making and joining modules
 - refractory mould-making techniques
 - combining kiln cast glass with glass components made using other techniques
 - adding colour to the casting glass
 - finishing techniques
- describe firing and annealing requirements of the kiln cast glass process
- explain ways to explore, adapt and experiment with different kiln casting techniques and materials to develop an individual style
- summarise, for a wide range of tools and equipment used to produce kiln cast glass objects, key physical features and uses, cleaning and maintenance techniques
- discuss typical work space requirements for producing kiln cast glass objects including ways of organising space and equipment for safe and efficient work operation
- explain key safety requirements for glasswork.

Assessment Conditions

Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance of typical activities experienced in creative arts industry environments. The assessment environment must include access to:

- equipment, tools and materials used to produce kiln cast glass objects
- relevant information sources.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational educational and training legislation, frameworks and/or standards.

Links

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