



Australian Government

Department of Education, Employment and Workplace Relations

CUVCER403A Experiment with ceramic surface treatments

Release: 1

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Modification History

Version	Comments
CUVCER403A	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 explore and apply a range of different ceramic surface treatments.

Application of the Unit

Ceramicists in the process of developing their individual style apply the skills and knowledge in this unit. They experiment with materials and techniques to develop a personal repertoire of ceramic surface treatments, which are used to decorate a range of ceramic forms to a pre-professional standard.

Work is carried out independently with supervision and guidance available 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 ideas and designs for ceramic surface treatments	1.1 Apply knowledge of different ceramic surface treatments to inform ideas and designs 1.2 Research, adapt and use relevant ideas and approaches from other practitioners with consideration of intellectual property requirements 1.3 Allow techniques and ideas to work together to inform each other 1.4 Consider the professional potential and other criteria for work when developing ideas 1.5 Refine and confirm ideas based on experimentation, research and collaboration with others
2. Extend skills in the application of surface treatments	2.1 Evaluate the potential for new approaches to surface treatments based on capabilities of techniques already used 2.2 Adapt or introduce new tools, equipment and materials for the application of different surface treatments 2.3 Extend the capabilities of different treatments through experimentation 2.4 Take account of the safety and sustainability considerations in thrown work
3. Apply surface treatments	3.1 Set up or coordinate resource requirements according to safety or other workplace requirements 3.2 Create surface treatments using techniques and media selected from research and experimentation 3.3 Review and refine ideas and approaches based on ongoing experiences with the production of work 3.4 Identify and resolve technical problems 3.5 Modify applications according to effect required and considering safety requirements 3.6 Label ceramic surface treatment materials and store safely 3.7 Use safe and sustainable work practices throughout the production of ceramic work
4. Evaluate own work	4.1 Reflect on own work in terms of conceptual development and technical execution 4.2 Identify areas for future improvement especially in terms of own skill development 4.3 Discuss completed work with others and respond

	positively to feedback
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Required Skills and Knowledge

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

Required skills

- communication skills to liaise with others about ceramics practice and challenges
- critical thinking and analytical skills to:
 - evaluate the needs of particular work projects, including design briefs for work
 - research and evaluate historical and contemporary trends to inform ideas
- literacy skills to read specifications and requirements for ceramics work
- problem-solving skills to identify and resolve technical surface treatment problems
- numeracy skills to work with numerical features of ceramics processes, including:
 - measurements of materials
 - timing processes
- self-management, planning and organising skills to evaluate opportunities in own practice in relation to new and innovative surface treatments
- technology skills to safely use ceramics equipment.

Required knowledge

- ways to adapt, extend and combine the capabilities of different surface treatments
- physical properties and capabilities of an extended range of materials and tools used for surface treatments
- characteristics of different materials under different surface 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 ceramics work
- historical and theoretical contexts for different surface treatments and how they may be used to inform individual practice
- sources of resources needed to create different surface effects
- intellectual property issues and legislation to be considered by independent arts practitioners
- sustainability considerations for the professional operation of a ceramics practice
- OHS requirements for the set-up and operation of a ceramics 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 surface treatment ideas and designs through a demonstrated process of research and experimentation • produce multiple finished ceramic pieces that demonstrate use of a range of different surface treatments • apply knowledge of materials, techniques, equipment and processes used to achieve different surface effects.
Context of and specific resources for assessment	Assessment must ensure access to: • a safe ceramics work space • ceramic materials, tools and equipment.
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 surface treatments within a body of work produced by the candidate • evaluation of processes used by the candidate to evolve and refine surface treatment technique • direct observation of work 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 work place 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: • CUVCE401A Experiment with techniques to produce ceramics.

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>Ceramic surface treatments</i> may include:	• added surface components • brushing • burnishing • carving • dipping • glaze on glaze • impressing • incising, sgraffito and engraving • inlaying • modelling • modifying applications • neriage • pouring • printing • resist and masking techniques • scraping • sponging • spraying • sprigging • trailing.
<i>Ideas and designs</i> may be influenced by:	• artistic aspirations • current capability with techniques • historical and theoretical contexts • research • 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.
<i>Research</i> may involve:	• approaching individuals with relevant expertise • attending lectures and talks

	- conducting material and technical experiments and tests - searching the internet - seeking out information in books, journals, newspapers and catalogues - visiting exhibitions and museums.
Intellectual property requirements include:	- extent to which the work of others may be used - form of acknowledgement or credit - 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:	- access to materials, tools and equipment for the techniques - contemporary and historical use of ceramic surface treatments - ease of application of the techniques - personal affinity with the techniques.
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 techniques.
Tools and equipment may include:	- banding wheels - brushes and toothbrushes - compressor - digital camera - electronic equipment used in design work, e.g. computer, scanner and printer software - hands and fingers - kiln furniture and equipment - kilns: electric, gas, wood or raku - knives and blades - measuring devices - modelling and carving tools - personal protective equipment (PPE) - programmable kiln controller - rolling tools - sponges and stamps - spray booth, spray gun and air brush

	• tongs • trailing tools.
Materials may include:	• glazes • colouring oxides, stains and pigments • commercial colours • lustres • range of clays • slips and engobes • resist materials: wax, latex, shellac, glues and paper • other materials, such as ashes, rocks, local clays and glass.
Safety and sustainability considerations may include:	• federal, state and territory legislation, regulations and standards • personal protection • recycling • safe disposal of waste • ventilation.
Workplace requirements may include:	• dust extraction • lighting • process-specific requirements • ventilation.
Technical problems may include:	• limitations of own technical skill required for: • forming techniques • application techniques • surface design and decorating techniques • limited availability of space for: • displaying fired results • production of work: making, assembling and firing • storage issues for work in progress: • cleanliness • humidity • security • other limitations, such as: • equipment and machinery breakdown • limited availability of or access to specialist materials, tools and equipment.

Unit Sector(s)

Visual communication – ceramics