



Australian Government

CUACER512 Investigate ceramic materials and processes

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with CUA Creative Arts and Culture Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to research and explore different ceramic materials and processes to develop an individual professional style. It involves researching materials and processes, exploring materials and processes, integrating them into own work and managing them according to requirements.

The unit applies to highly skilled visual artists who integrate the use of those different materials and processes explored, to realise a body of creative work, which could include functional items or art pieces. 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 – Ceramics

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. Research ceramic materials and processes	1.1 Research ways other artists have used different ceramic materials and processes to achieve different effects 1.2 Research physical properties and capabilities of different ceramic materials 1.3 Investigate how different materials and ceramic techniques combine to achieve different technical effects 1.4 Investigate safety issues associated with different materials and processes 1.5 Collate and store safety and technical data that meets safety

ELEMENT	PERFORMANCE CRITERIA
	requirements for ceramic work 1.6 Determine cost and supply issues for different materials
2. Select ceramic materials and processes for exploration	2.1 Seek and participate in professional discussions about characteristics and opportunities of different ceramic materials and processes 2.2 Evaluate creative and professional opportunities offered by different ceramic materials and processes for own approach to work 2.3 Identify and assess limitations and constraints of different materials and processes 2.4 Select different materials and processes that suit own practice
3. Integrate ceramic materials and processes into own work	3.1 Explore own new and different ways of working with materials and processes to achieve new effects and desired outcomes 3.2 Experiment on samples, practice pieces or a work in progress and challenge and stretch the capabilities and uses of different materials and processes 3.3 Identify and resolve technical problems with material use as required 3.4 Develop own ways of working with materials and processes
4. Manage ceramic materials	4.1 Establish supply of ceramic materials which meets price, quality and delivery expectations 4.2 Develop ways of working with materials that minimise waste 4.3 Handle and store materials according to quality and self-life guidelines

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Reading	Interprets and evaluates complex and unfamiliar information to identify key information about materials
Oral Communication	- Initiates and participates in complex discussions and encourages contributions - Elicits different perspectives on effective material use

SKILL	DESCRIPTION
	• Clarifies, summarises and builds constructively on the input of others
Numeracy	• Interprets budgetary constraints and supplier prices and calculates sometimes complex order costs
Self-management	• Takes responsibility for compliance with legal, safety and sustainability practices associated with creative work • Takes responsibility for completing own research and creative works from design inception to realisation • Manages own time and productivity • Manages own decisions about use of materials through research and selection
Teamwork	• Encourages contribution of creative and technical ideas from other artists • Fosters a collaborative approach to professional skills development through sharing and receiving knowledge, experience and information with other artists • Seeks mentoring as required
Planning and organising	• Develops broad, flexible plans to improve own artistic knowledge, techniques and professional style
Problem-solving	• Resolves problems with materials technique through practice, experimentation and analysis
Initiative and enterprise	• Creates opportunities to use more innovative approach and personal style

Unit Mapping Information

Supersedes and is equivalent to CUACER502 Investigate ceramic materials and processes.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for CUACER512 Investigate ceramic materials and processes

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- develop at least two bodies of ceramic work using different ceramic materials and processes.

In the course of the above, the candidate must:

- research the properties, capabilities and use of different ceramic materials to inform own work practice
- identify applicable intellectual property requirements
- handle equipment, tools and materials safely
- minimise and safely dispose of waste
- refine the use of ceramic materials through a process of thorough experimentation and practice to create coherent ceramic work which:
 - shows a command of chosen materials
 - demonstrates the development of an individual style
 - supports own ideas for work.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- copyright, trademarks, design licences and permissions applicable to producing ceramic works
- information sources that support research in ceramic materials
- materials used to produce ceramic work:
 - physical properties and capabilities
 - characteristics of materials under different treatments and how they work to achieve different effects

- limitations and constraints in achieving effects
- processes for combining different materials and ceramic techniques to achieve different technical effects
- ways to use, adapt, combine and challenge the capabilities of different ceramic materials to develop an individual professional style
- supply sources for an extensive range of ceramic materials used in professional practice
- ceramic materials: typical types, content and use of safety and technical data including safety data sheets (SDS)
- key safety requirements for ceramic work.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- equipment, tools and materials used to produce ceramic work
- applicable information sources.

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

Links

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