



Australian Government

CUAACD412 Experiment with moulding and casting techniques

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 develop technical skills in moulding and casting through experimentation. It involves developing different ideas based on own knowledge and existing ideas, extending moulding and casting skills through experimentation and producing moulds and casts.

The unit applies to those who work on the design and production of three-dimensional projects in industrial and creative contexts. In the creative industries this includes ceramic artists, sculptors and prop makers.

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

Unit Sector

Visual Communication – Art, Craft and Design

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 and designs for moulds and casts	1.1 Research, adapt and use applicable ideas and approaches from own knowledge of different casting and moulding techniques and other practitioners to inform ideas and designs 1.2 Explore ideas and techniques at the same time to strengthen potential outcomes 1.3 Consider market potential, required techniques and access to materials, tools and equipment when developing ideas for work 1.4 Refine and confirm ideas based on experimentation, research and collaboration with others
2. Extend moulding and	2.1 Evaluate potential for new approaches to moulding and casting

ELEMENT	PERFORMANCE CRITERIA
casting skills	based on capabilities of techniques already used 2.2 Adapt or introduce new materials, tools and equipment to achieve different outcomes 2.3 Extend capabilities of moulding and casting through experimentation
3. Make moulds and casts	3.1 Set up or coordinate resources according to safety or other workplace requirements 3.2 Create moulds and casts 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
4. Evaluate own work	4.1 Review 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 required personnel and respond positively to feedback

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 information from different sources and determines applicable moulding techniques
Oral communication	Elicits opinions and feedback from others using detailed and clear language
Numeracy	Determines resource requirements using simple mathematical formulae
Self-management	Takes responsibility for compliance with legal, safety and sustainability practices associated with moulding and casting techniques
Teamwork	Seeks collaborative relationships with others and discusses own ideas, elicits feedback on completed work and identifies skill development opportunities
Planning and organising	Plans and organises requirements for casting production

SKILL	DESCRIPTION
Initiative and enterprise	Achieves different results and extends skills and experience using research, exploration and experimentation

Unit Mapping Information

Supersedes and is equivalent to CUAACD402 Experiment with moulding and casting techniques.

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 CUAACD412 Experiment with moulding and casting techniques

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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:

- Produce at least one finished moulded item and one cast item using techniques selected from experimentation.

In the course of the above, the candidate must:

- develop ideas and techniques using research and experimentation and considering intellectual property requirements
- adapt, extend and combine the capabilities of different moulding materials and techniques
- apply techniques using safe and sustainable work practices throughout the moulding, casting and production process
- evaluate own work through self-reflection and collaboration with others.

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:

- physical properties and capabilities of different materials and tools used in moulding and casting
- characteristics of different materials under different treatments and their potential to achieve different effects
- research methodologies used by artists who experiment with moulding and casting techniques
- suppliers of moulding and casting resources needed in a professional practice
- intellectual property requirements and other applicable legislation if using or adapting ideas from other practitioners
- work health and safety and sustainability requirements for the set-up and operation of moulding and casting work space.

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:

- casting and mould-making materials, tools and equipment
- a workspace in which items can be constructed safely
- research tools and information sources
- interaction with others.

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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