



Australian Government

CUAACD520 Manage kiln operations

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 safely manage the technical operation of a kiln in the context of independent art, craft or design practice. It involves undergoing preparation for kiln work, setting up required work spaces, operating the kiln according to requirements and finalising associated documentation.

The unit applies to those who work in ceramics, glass or sculpture production and may also be responsible for the purchase or construction of their own kilns. They must be able to safely manage the operation of a kiln as part of an independent creative practice.

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. Prepare for kiln work	1.1 Assess ways in which different kilns are used for craft work to inform own approach to kiln work 1.2 Research historical and contemporary trends to inform own approach to kiln work 1.3 Source and access applicable kiln for own work 1.4 Compare value of own kiln purchase against the benefits of constructing own kiln 1.5 Investigate specific safety issues associated with kiln work and integrate procedures into own work practices
2. Set up kiln work space	2.1 Review requirements for kiln set-up

ELEMENT	PERFORMANCE CRITERIA
	2.2 Confirm or implement appropriate conditions before starting the firing process 2.3 Identify potential safety issues and take action to address them as required
3. Assess firing options	3.1 Consider firing options for the work being made 3.2 Determine required energy source or fuel 3.3 Establish applicable firing program requirements and firing time that meets requirements 3.4 Determine the necessary conditions to produce required kiln atmosphere for specific process as required
4. Operate and monitor the kiln	4.1 Evaluate and perform specific kiln loading and unloading requirements according to safety standards 4.2 Set required kiln controls and light kiln as required 4.3 Fire kiln according to required firing schedule 4.4 Monitor kiln operation and firing process 4.5 Identify and resolve technical problems in firing process 4.6 Execute appropriate shut-down procedures
5. Address documentation requirements	5.1 Set up firing log that includes required information 5.2 Record firing details in log for all work completed 5.3 Review firing logs to inform future work

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 complex theoretical and technical information from different sources and determines how content applies to individual requirements - Reviews specific information to inform future work practice
Writing	Records facts and key information related to the creative and technical outcomes of the job
Oral Communication	Elicits information from other practitioners and confirms understanding using active listening and questioning techniques
Numeracy	- Performs basic calculations and determines firing times - Compares costs of kiln purchase against kiln construction

SKILL	DESCRIPTION
Self-management	Considers implication of applicable regulatory and legislative requirements and takes responsibility for their incorporation into establishment and maintenance of safe work practices
Teamwork	Collaborates with other professionals to gather and share technical information and diagnose problems
Planning and organising	Adopts systematic approach to preparation and planning of task objectives and outcomes
Initiative and enterprise	Makes different analytical decisions to safely establish and operate a kiln to requirements, and determine firing options for particular work taking into account variables that affect outcomes
Problem-solving	Recognises and addresses unfamiliar problems and uses consultation and reflection to inform future practice

Unit Mapping Information

Supersedes and is equivalent to CUAACD510 Manage kiln operations.

Links

Companion Volume Implementation Guide is found on VETNet -

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