



Australian Government

CPCCT3018A Inlay lead to stone

Release 1

CPCST3018A Inlay lead to stone

Modification History

New unit based on superseded unit CPCST3008A

This version first released with CPC08 Construction, Plumbing and Services Training Package Version 9.

Not equivalent to CPCST3008A Inlay lead to stone

Unit Descriptor

This unit of competency specifies the outcomes required to inlay lead to lettering or shapes carved into stone surfaces. The unit may include working with others and in a team.

Application of the Unit

This unit of competency applies to stonemasons who inlay solid lead into stone.

Licensing/Regulatory Information

Check with relevant state and territory licensing and regulatory authorities. State and territory jurisdictions may have different regulatory requirements for work carried out on heritage structures.

Pre-Requisites

CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Where ***bold italicised*** text is used, further information is detailed in the required skills and knowledge and/or the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

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|---|--|-----|--|
| 1 | Plan and prepare. | 1.1 | Work instructions are obtained using relevant <i>information</i> , confirmed and applied for <i>planning and preparation</i> purposes. |
| | | 1.2 | <i>Work health and safety (WHS) requirements</i> are followed according to safety plans and policies. |
| | | 1.3 | <i>Tools and equipment</i> selected to carry out tasks are consistent with job requirements, checked for serviceability, and faults are rectified and reported before work begins. |
| | | 1.4 | Material quantity requirements are identified and calculated according to plans, specifications and <i>quality requirements</i> . |
| | | 1.5 | Materials appropriate to the work application are obtained, prepared, safely handled and located ready for use. |
| | | 1.6 | <i>Environmental requirements</i> are identified for the project according to environmental plans and <i>statutory and regulatory authority</i> requirements, and are applied. |
| 2 | Perform lead inlay process on lettering of stone surfaces. | 2.1 | Lead is prepared and handled safely, in suitably ventilated area and according to WHS requirements. |
| | | 2.2 | Lead strips are cut to suit incised letters and beaten into cavities according to job and WHS requirements. |
| | | 2.3 | Lead is rasped and rubbed to a raised or flat finish with stone surface according to job and WHS specifications. |

- 2.4 Letters or insignias are finished with clean edges and surface is finished according to job specifications.
- 3 Clean up.
 - 3.1 Waste and unwanted material are disposed of safely according to workplace and legislative requirements.
 - 3.2 Re-usable and recyclable materials are salvaged and stored according to workplace requirements.
 - 3.3 Tools and equipment are cleaned, maintained and stored according to workplace requirements.

Required Skills and Knowledge

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

Required skills

- communication skills to:
 - enable clear and direct communication
 - use questioning to identify and confirm requirements
 - share information
 - follow instructions
 - use and interpret non-verbal communication
 - use language and concepts appropriate to cultural differences
- innovation skills to select appropriate tools and equipment, respond to workplace challenges and put ideas into action
- numeracy skills to apply measurements and calculate material requirements
- planning and organising skills to identify requirements, apply relevant resources and sequence tasks
- problem-solving skills to recognise and take action to rectify minor faults and problems
- reading skills to:
 - identify letters in order to check spelling
 - read and interpret drawings and specifications
- teamwork skills to work with others to action tasks

Required knowledge

- drawing conventions and construction terminology used in plans and specifications
- effect of lead on humans and related safety precautions
- job safety analyses (JSA) and safe work method statements (SWMS)
- methods of inlaying lead to stone
- types of stone and their characteristics
- workplace and equipment safety requirements

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 This unit of competency could be assessed in the workplace or a close simulation of the workplace environment, provided that simulated or project-based assessment techniques fully replicate construction workplace conditions, materials, activities, responsibilities and procedures.

Critical aspects for assessment and evidence required to demonstrate competency in this unit A person should demonstrate the ability to inlay at least three different types of lettering, insignia and monograms using solid lead, providing evidence of the ability to:

- select and use appropriate tools, equipment and processes consistent with requirements of inlaying lead to lettering or shapes on stone surfaces
- comply with WHS requirements applicable to workplace operations
- apply organisational quality procedures and processes within context of inlaying lead to stone
- use safe and effective procedures to inlay lead to recesses cut into stone
- complete inlaying of lead and finishing of surface to specifications
- communicate with others to ensure safe and effective workplace operations.

Context of and specific resources for assessment Assessment of this unit:

- must be in the context of the work environment
- may be conducted in an off-site context, provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills
- must meet relevant compliance requirements.

Resource implications for assessment may include:

- workplace location
- tools and equipment appropriate to inlaying processes
- stone with pre-cut lettering or patterns relevant to proposed activity
- drawings, specifications and documentation relevant to activity.

Method of assessment Assessment for this unit must verify the practical application of

the required skills and knowledge, using one or more of the following methods:

- direct observation of tasks in real or simulated work conditions
- questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application
- review of relevant authenticated documentation from third parties, such as existing supervisors, team leaders or specialist training staff.

Guidance information for assessment

This unit could be assessed on its own or in combination with other units relevant to the job function, for example:

- CPCST3010A Set out and cut letters in stone
- CPCST3015A Apply gilding to stone.

Reasonable adjustments for people with disabilities must be made to assessment processes where required. This could include access to modified equipment and other physical resources, and the provision of appropriate assessment support.

Assessment processes and techniques should, as far as is practical, take into account the language, literacy and numeracy capacity of the candidate in relation to the competency being assessed.

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.

Information may include:

- diagrams or sketches
- instructions issued by authorised organisational or external personnel
- memos
- regulatory and legislative requirements for handling lead and stone
- current Australian standards relating to inlaying solid lead into stone
- safe work procedures relating to handling lead and stone
- safety data sheets (SDS)
- signage
- verbal, written and graphical instructions, including

Planning and***preparation*** may include:

- manufacturer specifications and instructions where specified
- work bulletins
- work schedules, plans and specifications.
- assessing conditions and hazards
- determining work requirements and safety plans and policies
- identifying equipment defects
- inspecting work sites.

Work health and safety***requirements*** must

comply with state and territory legislation and regulations and project safety plan and may include:

- emergency procedures, including extinguishing fires, organisational first aid requirements, and evacuation procedures
- hazard control
- handling and disposal of hazardous materials and substances, especially lead
- personal protective equipment (PPE) prescribed under legislation, regulations and workplace policies and practices
- safe operating procedures, including operational risk assessment and treatments associated with:
 - concealed services (water, power and gas)
 - lighting
 - restricted access barriers
 - traffic control
 - working at heights
 - work site visitors and the public
 - working in proximity to others
- use of firefighting equipment
- use of tools and equipment
- workplace environmental requirements and safety.

Tools and equipment

may include:

- clamps
- cotton wool or velvet
- gelatine
- hammers
- lettering chisels
- mallets
- masonry drills
- measuring tapes and rules
- pneumatic lettering chisels
- power grinders
- power leads
- punches
- scribes
- sculptor's chisels
- squares

- Quality requirements*** may include:
- straight edges.
 - attention to specifications of work
 - control of handling procedures
 - finishing of stone surfaces
 - quality of materials
 - relevant regulations, including:
 - Australian standards
 - internal organisational quality policy and standards
 - manufacturer specifications where specified
 - workplace operations and procedures.
- Environmental requirements*** may include:
- clean-up management
 - dust and noise control
 - vibration management
 - waste management.
- Statutory and regulatory authority*** includes:
- federal, state and local authorities administering applicable Acts, regulations and codes of practice.

Unit Sector(s)

Construction

Custom Content Section

Not applicable.