



Australian Government

Department of Education, Employment and Workplace Relations

CPCCBBC4036A Prepare to undertake the heritage restoration process

Release: 1

CPCCB4036A Prepare to undertake the heritage restoration process

Modification History

Not Applicable

Unit Descriptor

Unit descriptor This unit of competency specifies the outcomes required to undertake the preparation of the heritage restoration job by skilled and experienced tradespersons.

Application of the Unit

Application of the unit This unit of competency supports the range of tradespersons across disciplines who are involved in heritage restoration. It is not the intent of this or related units to replicate the technical processes associated with the performance of the trade skills necessary to complete the work. The unit applies to the particular processes associated with the application of existing high-level trade skills in the specialist heritage restoration environment.

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units Nil

Employability Skills Information

Employability skills 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 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.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Ensure compliance with conservation and workplace standards.	1.1. Conservation requirements and processes associated with the preservation of historically significant buildings are identified. 1.2. Quality assurance requirements associated with the performance of the relevant trade skill are identified. 1.3. OHS requirements, including the identification of personal protective equipment are identified. 1.4. Safety hazards are identified and correct procedures to minimise risk to self and others are identified and implemented.
2. Identify and obtain historical data.	2.1. Period and style of construction of the building or structure are ascertained and recorded. 2.2. Available construction information is sourced from engineers and records and analysed for relevant and historically accurate information. 2.3. Materials used for previous restoration work are identified, recorded and verified as appropriate for the work. 2.4. Information relevant to the location, structure and specifications of the building are photographed or collated using alternative means and recorded.
3. Prepare work area and resources.	3.1. Cover protection of nearby surfaces is carried out in accordance with restoration activities. 3.2. Scaffolding barricades and signage are erected to OHS regulations in accordance with job requirements. 3.3. Appropriate lighting is erected at the site. 3.4. Materials required for the identified restoration work are calculated and acquired in accordance with organisational procedures. 3.5. Tools and equipment are selected and checked for serviceability.
4. Establish and maintain records for restoration purposes.	4.1. Method of organising files is determined in accordance with organisational procedures. 4.2. System of presentation of the file is organised and a list made of relevant categories of information. 4.3. Photographs of the current structure are taken and stored for future reference as required. 4.4. Details of materials used, including colour matches, are recorded and filed throughout the life of the

ELEMENT**PERFORMANCE CRITERIA**

restoration project.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

Required skills for this unit are:

- communication skills to:
 - enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
 - communicate with team
 - consult with technical specialists, client and other stakeholders
 - facilitate discussions
 - read and interpret:
 - documentation from a variety of sources
 - plans, specifications and drawings
 - use and interpret non-verbal communication
 - use language and concepts appropriate to cultural differences
 - written skills to record relevant information
- numeracy skills to apply measurements and calculations
- organisational skills, including the ability to plan for and set out work.

Required knowledge

Required knowledge for this unit is:

- Building Code of Australia (BCA) and other Australian standards relevant to the nature of work and materials being used
- conservation processes, including good conservation practice arising from principles of Burra Charter
- methods and processes relating to historic building construction, including the range and use of building materials, structure of buildings and drafting techniques
- relevant architectural knowledge, including orders of architecture, and characteristics and features of period architecture and period plastering associated with historic buildings
- workplace and equipment safety requirements, including relevant statutory regulations, codes and standards.

Evidence Guide

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 by carrying out all processes required to prepare for a restoration project.

This unit of competency can 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 who demonstrates competency in this unit must be able to provide evidence of the ability to:

- apply conservation considerations and consultative processes to determine desired restoration application and finish
- demonstrate understanding of preservation of fabric
- comply with OHS regulations applicable to workplace operations
- apply organisational quality procedures and processes within the context of heritage restorations
- record and identify materials used
- use appropriate techniques to provide cover protection
- use safe and effective procedures to handle hazardous materials
- identify typical faults and problems that occur and take necessary action to rectify
- interact with others to ensure safe and effective work site operations.

Context of and specific resources for assessment

This competency is to be assessed using standard and authorised work practices, safety requirements and environmental constraints.

Assessment of essential underpinning knowledge

EVIDENCE GUIDE

will usually be conducted in an off-site context.

Assessment is to comply with relevant regulatory or Australian standards' requirements.

Resource implications for assessment include:

- historic work locations appropriate to competency range and activities
- materials appropriate to application activities
- appropriate documentation and data related to tasks
- scaffolding equipment, plant, tools and equipment relevant to activity processes.

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.

Method of assessment

Assessment methods must:

- satisfy the endorsed Assessment Guidelines of the Construction, Plumbing and Services Training Package
- include direct observation of tasks in real or simulated work conditions, with questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application
- reinforce the integration of employability skills with workplace tasks and job roles
- confirm that competency is verified and able to be transferred to other circumstances and environments.

Validity and sufficiency of evidence requires that:

- competency will need to be demonstrated over a period of time reflecting the scope of the role and the practical requirements of the workplace
- where the assessment is part of a structured learning experience the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice,

EVIDENCE GUIDE

with a decision on competency only taken at the point when the assessor has complete confidence in the person's demonstrated ability and applied knowledge

- all assessment that is part of a structured learning experience must include a combination of direct, indirect and supplementary evidence.

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.

Supplementary evidence of competency may be obtained from relevant authenticated documentation from third parties, such as existing supervisors, team leaders or specialist training staff.

Range Statement

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.

Quality assurance includes:

- application techniques
- attention to specifications of work
- cleanliness of surfaces
- preparation of surfaces
- quality of materials
- quality of tools
- quality records
- workplace operations and procedures.

OHS requirements cover:

- handling materials
- protective clothing and equipment
- use of ladders
- use of tools and equipment

RANGE STATEMENT

Personal protective equipment includes:

- working platforms and scaffolding
- workplace environment and safety.
- boots
- caps
- ear plugs and muffs
- gloves
- masks and respirators
- safety glasses and goggles.

Safety hazards include:

- cutting back loose surfaces
- dust
- handling hazardous materials
- wind
- working from platforms.

Historically accurate information includes from sources such as:

- building trusts
- elderly local residents
- historical societies
- municipal building records
- National Trust
- restoration contractors.

Materials may include:

- fixings and fasteners of the period era
- paints
- plaster mixes
- specialist materials of the relevant period era
- tiles.

Tools and equipment include:

- bricklaying: shovels, wheelbarrows and string lines
- carpentry: measuring tapes and rules, hammers, spirit levels, hand saws, scrapers, power leads, trowels, mortar boards and straight edges
- general construction: shovels, modelling tools, brooms, wheelbarrows and trowels
- painting: brushes, straight edges and ladders
- plastering: wood floats, steel floats, hawk, spirit levels and trowels
- plumbing: hammers, mallets and blow torches
- stonemasonry: chisels, wheelbarrows and modelling tools
- tiling: squares, scrapers, power leads, trowels, mortar boards and straight edges.

RANGE STATEMENT

Relevant categories of information include:

- construction technical data
- drawings, sketches and photographs
- material technical data
- materials and suppliers
- materials in construction and finishing
- OHS building regulations
- original structure and construction
- reference notes
- restoration records
- restoration work carried out
- specialist materials for the period era
- specifications
- technical brochures.

Unit Sector(s)

Unit sector Construction

Co-requisite units

Co-requisite units Nil

Functional area

Functional area