



Australian Government

Department of Education, Employment and Workplace Relations

CPCCSP3007A Apply plaster by projection machine

Release: 1

CPCCS3007A Apply plaster by projection machine

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit of competency specifies the outcomes required to apply pre-blended plasters and cement render materials on various background surfaces using a projection plastering system.

It includes planning and preparation for the work, selection and preparation of materials, preparation of the work area, application of plaster and cement render, and completion of post work clean-up activities.

The unit does not include swimming pool or pond application.

Application of the Unit

Application of the unit

This unit supports the attainment of skills and knowledge to use plaster projection equipment for application of pre-blended plaster and cement render materials in construction projects, excluding swimming pools, spas and ponds. It includes working with others and as a member of a team.

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units

CPCCOHS2001A

Apply OHS requirements, policies and procedures in the construction

Prerequisite units

industry

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. Plan and prepare.	1.1. Work instructions, including plans, specifications, quality requirements and operational details are obtained from relevant information, confirmed and applied to the scope of work performed. 1.2. Safety (OHS) requirements are followed in accordance with safety plans and policies. 1.3. Plant, tools and equipment selected to carry out tasks are consistent with the requirements of the job, checked for serviceability and any faults are rectified or reported prior to commencement. 1.4. Materials quantity requirements are calculated in accordance with plans, specifications and quality requirements. 1.5. Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use. 1.6. Environmental requirements are identified for the project in accordance with environmental plans and statutory and legislative authority obligations and applied.
2. Prepare the work area.	2.1. Area to receive pre-blended plasters and cement render materials is determined from plans and specifications. 2.2. Area is masked up and protection for surrounding areas is applied. 2.3. Mixing pump is set up and positioned to suit job requirements. 2.4. Application area is cleared for projection plastering application. 2.5. Barricades and signage are placed to minimise disruption to application process.
3. Apply pre-blended plasters and render materials.	3.1. Mixing pump is operated to manufacturer recommendations and job requirements. 3.2. Material is screeded to correct thickness in accordance with specifications. 3.3. Material is applied using projection plastering techniques to specifications. 3.4. Required finish is produced on material to job finishes schedule.
4. Clean up.	4.1. Work area is cleared and materials disposed of, reused or recycled in accordance with legislation,

ELEMENT**PERFORMANCE CRITERIA**

regulations, codes of practice and job specification.

4.2. Plant, tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturer recommendations and standard work practices.

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:
 - determine requirements
 - follow instructions
 - notify completion of work
 - read and interpret:
 - documentation from a variety of sources
 - drawings and specifications
 - report faults
 - use language and concepts appropriate to cultural differences
 - use and interpret non-verbal communication, such as hand signals
- identifying and accurately reporting to appropriate personnel any faults in tools, equipment or materials
- mathematical and numeracy skills to apply measurements and calculations
- organisational skills, including the ability to plan and set out work
- teamwork skills to work with others to action tasks and relate to people from a range of cultural and ethnic backgrounds and with varying physical and mental abilities
- technological skills to:
 - use a range of mobile technology, such as two-way radio and mobile phones
 - voice and hand signals to access and understand site-specific instructions.

Required knowledge

Required knowledge for this unit is:

- job safety analysis (JSA) and safe work method statements

REQUIRED SKILLS AND KNOWLEDGE

- material safety data sheets (MSDS)
- materials storage and environmentally friendly waste management
- plans, drawings and specifications
- plastering terminology
- processes for the calculation of material requirements
- projection machine application techniques
- projection machine equipment types, characteristics, uses and limitations
- properties, characteristics and limitations of plastering and cement rendering materials for use with projection machines
- quality requirements
- workplace and equipment safety requirements.

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 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:

- locate, interpret and apply of relevant information, standards and specifications
- comply with site safety plan and OHS legislation, regulations and codes of practice applicable to workplace operations
- comply with organisational policies and procedures, including quality requirements
- safely and effectively use tools, plant and equipment
- communicate and work effectively and safely with others
- mix, blend and apply plaster by projection machine to walls and ceilings to a specified finish
- mix, blend and apply cement render by projection machine to walls and ceilings to a specified finish.

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 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:

- an induction procedure and requirement

EVIDENCE GUIDE

- realistic tasks or simulated tasks covering the mandatory task requirements
- relevant specifications and work instructions
- tools and equipment appropriate to applying safe work practices
- support materials appropriate to activity
- workplace instructions relating to safe work practices and addressing hazards and emergencies
- material safety data sheets
- research resources, including industry related systems information.

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.

Information includes:

- diagrams or sketches
- instructions issued by authorised organisational or external personnel
- manufacturer specifications and instructions, where specified
- MSDS
- memos
- regulatory and legislative requirements pertaining to the application of plaster by projection machine
- relevant Australian standards
- safe work procedures relating to the

RANGE STATEMENT

Scope of work:

Safety (OHS) is to be in accordance with state and territory legislation and regulations and project safety plan and may include:

- application of plaster by projection machine
- signage
- verbal, written and graphical instructions
- work bulletins
- work schedules, plans and specifications.
- applications include walls, ceilings, inclined surfaces, sills and arches
- substrates for application include blockwork, concrete, stonework and cement sheet.
- emergency procedures, including extinguishing fires, organisational first aid requirements and evacuation
- handling activities that may require the assistance of others or the use of manual or mechanical lifting devices where size, weight or other issues, such as a disability are a factor
- hazard control
- hazardous materials and substances, including cement and curing agents
- organisational first aid
- PPE prescribed under legislation, regulations and workplace policies and practices
- safe operating procedures, including the conduct of operational risk assessment and treatments associated with:
 - earth leakage boxes
 - lighting
 - power cables, including overhead service trays, cables and conduits
 - restricted access barriers
 - surrounding structures
 - traffic control
 - trip hazards
 - work site visitors and the public
 - working at heights
 - working in confined spaces
 - working in proximity to others
- use of firefighting equipment
- use of tools and equipment
- workplace environmental requirements and safety.

RANGE STATEMENT

<i>Tools and equipment</i> include:	• brushes • joint rules • measuring tapes and rules • plumb bobs • power leads • projection machine and support equipment and tools • scaffolding or working platforms • small tools • spirit levels • squares • straight edges • trowels.
<i>Materials</i> include:	• cement render • cleaning materials • plaster.
<i>Quality requirements</i> include relevant regulations, including:	• Australian standards • internal company quality policy and standards • manufacturer specifications • workplace operations and procedures.
<i>Environmental requirements</i> include:	• clean-up management • dust and noise • stormwater protection • vibration • waste management.
<i>Statutory and regulatory authorities</i> include:	• federal, state and local authorities administering the applicable Acts, regulations and codes of practice.

Unit Sector(s)

Unit sector Construction

Co-requisite units

Co-requisite units Nil

Co-requisite units Nil

Functional area

Functional area