Australian Government

Department of Education, Employment and Workplace Relations

CPCCSP3001A Apply float and render to straight and curved surfaces

Release: 1

CPCCSP3001A Apply float and render to straight and curved surfaces

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit of competency specifies the outcomes required to float, render and finish flat and curved solid plastering work.

It includes planning and preparation for the work, preparation of templates, preparation of the background surface, application of floating and rendering to flat and curved surfaces and to piers, finishing of the rendering coats, and post work clean-up activities.

Application of the Unit

Application of the unit

This unit supports the attainment of skills and knowledge to apply floated or rendered materials to a range of straight and curved construction surfaces, which 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 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. Signage and barricade requirements are identified and implemented. 1.4. ***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. 1.5. ***Materials*** quantity requirements are calculated in accordance with plans, specifications and ***quality requirements***. 1.6. Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use. 1.7. ***Environmental requirements*** are identified for the project in accordance with environmental plans and ***statutory and legislative authority*** obligations and applied.
2. Prepare templates for curved work or circular columns.	2.1. Material is selected to manufacturer templates. 2.2. Radiuses and shapes are established for curves and columns according to plans and specifications. 2.3. Templates are manufactured and formed to suit job requirements.
3. Prepare background surface.	3.1. Background surface is identified and wire-brushed if required. 3.2. Dash coat is mixed and applied liberally to wetted surface. 3.3. Bonding coats using patent products are applied to specifications. 3.4. Metal beads are selected for external or squint arises. 3.5. Metal beads are fixed to arises and checked for accuracy.
4. Apply floating and rendering to flat and curved surfaces.	4.1. Screeding lines or guides are established to specified tolerances. 4.2. Float is used and applied to Australian standards and plans and specifications.

ELEMENT	PERFORMANCE CRITERIA
	4.3. Floating coat is applied and ruled off to screed. 4.4. Surface is finished, plumbed and levelled to specified alignment tolerance. 4.5. Heads, reveals and sills are finished square off to wall ace and back into opening. 4.6. Internal angles, ceiling and floor lines are accurately cut.
5. Apply floating and rendering coats to piers.	5.1. Floating coat is applied using floating profiles and rules, and Dutch pins or hooks so that face of pier is plumb and ruled off. 5.2. Face is squared off to form returns and reveals, rules are removed and arises are left square or radiussed as required.
6. Apply floating coat within metal beading.	6.1. Metal beading is fixed to base surface to form a panel with expansion joint so that panel is plumb and square to specified position. 6.2. Panels are finished to true, flat surfaces, suitable for applying plaster and lime setting.
7. Finish rendering coats on flat walls, piers and curved work.	7.1. Walls are hand floated to fill slacks and voids. 7.2. Walls are scoured and fined using water and hand float systems.
8. Clean up.	8.1. Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations, codes of practice and job specification. 8.2. 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:

REQUIRED SKILLS AND KNOWLEDGE

- determine requirements
- follow instructions
- 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
- 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:

- flat and curved surface plastering floating, rendering and finishing techniques
- job safety analysis (JSA) and safe work method statements
- material safety data sheets (MSDS)
- materials storage and environmentally friendly waste management
- plans, drawings and specifications
- plastering tools and equipment types, characteristics, uses and limitations
- processes for the calculation of material requirements
- quality requirements
- solid plastering terminology
- systems and techniques for safe handling of materials
- types, characteristics, uses and limitations of solid plastering materials and components
- 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 and equipment
- communicate and work effectively and safely with others
- floating, rendering and finishing to specification a minimum of three surfaces, including:
  - a curved wall
  - a ceiling
  - a column.

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 float and render
- relevant Australian standards
- safe work procedures relating to the application of float and render

RANGE STATEMENT

	• signage • verbal, written and graphical instructions • work bulletins • work schedules, plans and specifications.
Scope of work:	• floating, rendering and finishing include horizontal, vertical and curved surfaces, including walls, reveals, sills, piers and columns • templates include those for curved work and circular columns • background surfaces include concrete, concrete blockwork, brickwork, stonework, and timber or metal lathing • cleaning and preparation of background surfaces include wire brushing, grinding, washing down, chipping and blast cleaning • wash coating may be applied using trowel, brush or nozzle spray • bond coating may be applied using nozzle spray, roller or brush.

Safety (***OHS***) is to be in accordance 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
	• 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:
	  • lighting
	  • power equipment
	  • power leads and sources
	  • trip hazards
	  • work site visitors and the public
	  • working in confined spaces

RANGE STATEMENT

- working in proximity to others
- use of firefighting equipment
- use of tools and equipment
- workplace environmental requirements and safety.

Tools and equipment:

- include:
  - measuring tapes and rules
  - spirit levels
  - squares
  - trowels
  - floats
  - brushes
  - screed boards
  - straight edges
  - mortar boards and stands
  - shovels
  - wheelbarrows
  - hawks
  - joint rules
  - small tools
  - plumb bobs and mason's squares
  - buckets
  - sieves
  - power leads
  - hammers
  - tin snips
- may include:
  - grinders
  - wood saws
  - metal files
  - concrete mixers and scaffolding.

Materials:

- solid plastering materials and components include:
  - casing beads
  - corner beads
  - lime
  - lime putty
  - plaster compounds and finish coats

RANGE STATEMENT

	• render and setting coats mix composition, including additives such as plasticisers, colour and waterproofing agents • sand • other materials may include: • flat marine ply • flat sheet plain galvanised iron (PGI) • nails • timber.
Quality requirements include relevant regulations, including:	• Australian standards • internal company quality policy and standards • manufacturer specifications • workplace operations and procedures.
Environmental requirements include:	• clean-up management • dust and noise • stormwater protection • waste management.
Statutory and regulatory authorities 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

Functional area

Functional area