



Australian Government

Department of Education, Employment and Workplace Relations

CPCCFW3001A Prepare surfaces for tiling application

Release: 1

CPCCFWF3001A Prepare surfaces for tiling application

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit of competency specifies the outcomes required to repair and prepare different substrates for wall and floor tiling applications.

It includes the preparation of materials and substrates for the tiling process.

Application of the Unit

Application of the unit

This unit of competency supports the attainment of skills and knowledge to prepare surfaces for tiling application while working with others 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.	<p>1.1. Work instructions and operational details are obtained using relevant <i>information</i>, confirmed and applied for <i>planning and preparation</i> purposes.</p> <p>1.2. <i>Safety (OHS)</i> requirements are followed in accordance with safety plans and policies.</p> <p>1.3. Signage and barricade requirements are identified and implemented.</p> <p>1.4. <i>Tools and equipment</i> 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.</p> <p>1.5. Material quantity requirements are calculated in accordance with plans and specifications and <i>quality requirements</i>.</p> <p>1.6. <i>Materials</i> appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use.</p> <p>1.7. <i>Environmental requirements</i> are identified for the project in accordance with environmental plans and regulatory obligations and applied.</p>
2. Prepare materials for tiling application.	<p>2.1. Floor and wall tiling materials are checked for product suitability, conformity to specification and compatibility with surface material, preparation and installation technique.</p> <p>2.2. Activities for material preparation are identified from specifications, and manufacturers' or supervisor's instructions.</p> <p>2.3. Material preparation is carried out to satisfy the requirements of the application process.</p>
3. Prepare underlay and sheeting substrate.	<p>3.1. Assistance with <i>underlay</i> preparation is provided under instructions and supervision.</p> <p>3.2. <i>Substrate surface</i> is finished to approved surface standards with joints flush and sealed.</p>
4. Prepare render substrate surface.	<p>4.1. <i>Surface-mounted construction</i> units and attachments are safely detached, removed or arranged for removal from area and stored.</p> <p>4.2. Substrate structure is identified and surfaces are cleaned to remove all contaminants and loose material in accordance with supervisor's instructions.</p> <p>4.3. Materials for splash coat are proportioned and mixed to instructions ready for application to wet surface.</p>

ELEMENT	PERFORMANCE CRITERIA
5. Clean up.	<p>4.4. Horizontal and vertical surrounds are prepared for tiling process in accordance with <i>type of tile</i> and specified finish.</p> <p>4.5. Materials for render coat are proportioned and mixed to instructions ready for application.</p> <p>4.6. <i>Surface</i> is scratched, rendered, cured and dried to instructions in accordance with specifications for tile application.</p> <p>5.1. Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations, codes of practice and job specification.</p> <p>5.2. Plant, tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturer recommendations and standard work practices.</p>

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:
 - follow instructions
 - read and interpret:
 - documentation from a variety of sources
 - drawings and specifications
 - recognise procedures
 - report faults
 - enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
 - use language and concepts appropriate to cultural differences
 - use and interpret non-verbal communication, such as hand signals
 - written skills to record results of checks and tests and relevant work completion procedures
- evaluate own actions and make judgments about performance and necessary improvements

REQUIRED SKILLS AND KNOWLEDGE

- identifying and accurately reporting to appropriate personnel any faults in tools, equipment or materials
- organisational skills, including the ability to plan and set out work
- respond to change and contribute to workplace responsibilities, such as current work site environmental and sustainability frameworks and management systems
- 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:

- general construction terminology
- 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
- plant, tools and equipment types, characteristics, uses and limitations
- processes for the calculation of material requirements
- quality requirements
- surface preparation materials and techniques
- 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 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 operate and use tools, plant and equipment
- communicate and work effectively and safely with others
- as a minimum (using a combination of underlay, render and mechanical and chemical techniques), prepare a bathroom work area for wall and floor tiling; prepare a timber bathroom floor and pointed fibre cement sheet wall for tiling; and prepare a concrete bathroom floor and pointed fibre cement sheet wall for tiling, ensuring:
 - correct identification of requirement and completion of the preparation
 - correct selection and use of appropriate processes, tools and equipment
 - completing all work to specification
 - compliance with regulations, standards and organisational quality procedures and processes.

Context of and specific

This competency is to be assessed using standard

EVIDENCE GUIDE

resources for assessment

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:

- workplace location or simulated workplace
- materials relevant to preparing surfaces for tiling
- hand and power tools, plant and equipment appropriate to preparing surfaces for tiling
- realistic activities covering the mandatory task requirements
- specifications and work instructions.

Assessment of this unit of competency may be in conjunction with assessment of other units commonly performed at the same time in normal job roles.

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:

EVIDENCE GUIDE

- 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, 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,

RANGE STATEMENT

where specified

- MSDS
- memos
- regulatory and legislative requirements pertaining to preparing surfaces for tiling
- relevant Australian standards
- safe work procedures relating to preparing surfaces for tiling
- signage
- verbal, written and graphical instructions
- work bulletins
- work schedules, plans and specifications.
- assessment of conditions and hazards
- determination of work requirements and safety plans and policies
- equipment defect identification
- work site inspection.
- emergency procedures, including extinguishing fires, organisational first aid requirements and evacuation
- hazard control
- hazardous materials and substances
- 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:
 - concealed services (water, power and gas)
 - lighting
 - traffic control
 - restricted access barriers
 - 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.

Planning and preparation include:

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

RANGE STATEMENT

Tools and equipment include:

- brooms
- brushes
- buckets
- caulking guns
- cement sheet cutters
- concrete mixers
- electrical leads
- hammers
- hose and water sprays
- ladders
- levelling equipment
- lump hammers
- measuring tapes and rules
- mortar boards
- nippers
- pointed grouters
- power drills and screwdrivers
- power grinders and sanders
- rags
- rubber mallets
- sanding blocks
- saws
- scrapers
- shovels
- spacers and wedges
- spatulas
- sponges
- squares
- squeegees
- straight edges
- stringlines
- trowels
- wet and dry diamond saws
- wheelbarrows
- wire brushes
- wooden floats
- work platforms.

Quality requirements include relevant regulations, including:

- Australian standards
- internal company quality policy and standards
- manufacturer specifications

RANGE STATEMENT

Materials:

- workplace operations and procedures.
- include:
 - adhesives
 - caulking compound
 - cement mortar (with and without additives)
 - clouts
 - cornice adhesive
 - fixings and fasteners
 - patching materials
 - plasterboard nails
 - pre-mixed and mixed fillers
 - sand and cement
 - self-tapping screws
 - soft sheet nails
 - wall board adhesive
- may include:
 - acoustic underlay material
 - crack suppression membrane.

Environmental requirements include:

- clean-up management
- dust and noise
- sedimentation control
- vibration
- waste management.

Underlay material may be:

- acoustic
- in sheet or liquid form
- provide for crack suppression (in membrane form).

Substrate preparation includes:

- chemical and mechanical preparation of surfaces
- rendering to provide a flat surface
- use of underlay material.

Substrate surface materials include:

- fibre cement sheets or other lining material or cladding of a similar nature
- painted surfaces
- pre-cast cladding
- solid plaster
- stone, concrete, timber, waterproof plasterboard, masonry and brick/block
- terrazzo

RANGE STATEMENT

Surface-mounted construction includes:

- wall and floor tiles.
- aluminium framework fixing
- attachment of steel brackets or fabricated units
- brick or block walls or abutments
- curtain walling fixing
- fitment units
- formwork and falsework construction
- light steel partition walls
- stair installations
- timber partition walls.

Types of tiles include:

- ceramic
- glass
- granite
- marble
- porcelain
- stone
- terracotta.

Surfaces include:

- blockwork
- brickwork
- ceramic or fibro cement underlay
- concrete walls
- fibre cement sheet
- rendered surfaces
- timber
- other approved waterproof surfaces.

Unit Sector(s)

Unit sector Construction

Co-requisite units

Co-requisite units Nil

Co-requisite units Nil

Functional area

Functional area