



Australian Government

Department of Education, Employment and Workplace Relations

CPCCFWF3005A Carry out decorative tiling

Release: 1

CPCCFWF3005A Carry out decorative tiling

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit of competency specifies the outcomes required to locate and set out dimensions and plans for decorative tiling projects, to form a specific pattern and meet client requirements.

It includes identifying, setting out, cutting and laying out tiles to walls and floors where advanced setting out is required to align wall and floor joints, including heritage tiles.

Application of the Unit

Application of the unit

This unit of competency supports the attainment of skills and knowledge to carry out decorative tiling 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 pattern and materials for tiling.	<p>2.1. Suitable architectural or historical period is identified and a range of appropriate <i>patterns</i> is produced.</p> <p>2.2. Style of tile is selected to conform with the elements of design.</p> <p>2.3. Colour and shape of tile are selected to conform with specifications and the geometry of the project.</p> <p>2.4. Details of pattern and selected <i>tiles</i> are confirmed with <i>client</i>.</p>
3. Form decorative design.	<p>3.1. Tiles are set out to required shape and size to conform to pattern and <i>decorative design</i>.</p> <p>3.2. Examples of border, beading and strip returns are laid out.</p> <p>3.3. Tiles are cut, as necessary, to complete the pattern set out.</p> <p>3.4. Wall and floor tile joints are aligned plumb and square and cut tiles are positioned.</p>
4. Prepare substrate.	<p>4.1. <i>Substrate surfaces</i> are prepared to specification and standard.</p> <p>4.2. Location of tiles is set out or marked directly onto</p>

ELEMENT	PERFORMANCE CRITERIA
	the surface in accordance with job drawings and specification.
5. Fix tiles.	5.1. Adhesive/mortar is applied to set out area. 5.2. Wall tiles are laid from a selected position to ensure correct set out. 5.3. Floor tiles are set out and laid from the centre, if necessary, to even set out. 5.4. Border tiles are laid and adjusted to suit set out. 5.5. Surface is finished in accordance with job specifications.
6. Grout tiles.	6.1. Tiled surface is cleaned free of dust and adhesive. 6.2. Grout is mixed and applied in accordance with manufacturer specifications and to meet job requirements. 6.3. Finished surface is cleaned and polished with dry cloth to specifications.
7. Clean up.	7.1. Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations, codes of practice and job specification. 7.2. 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:
 - follow instructions
 - read and interpret:
 - documentation from a variety of sources
 - drawings and specifications
 - recognise procedures

REQUIRED SKILLS AND KNOWLEDGE

- 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
- 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:

- decorative tiling materials, including tiles, adhesives, mortar, grouting and substrates, their characteristics, preparation, methods, application and finishing
- decorative tiling techniques
- design reproduction and application methods
- general construction terminology
- heritage tiles and patterns
- job safety analysis (JSA) and safe work method statements
- material safety data sheets (MSDS) and hazards associated with solvents, adhesives and cement or epoxy-based grouts
- 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
- 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, select, set out and lay heritage style wall tiles and decorative strips to a 2 square metre wall finished to differing heights; and select, set out and lay tessellated floor tiles and a decorative border to an L-shaped area of approximately 1.5 square metres, ensuring:
 - correct identification of requirement and completion of the tiling
 - 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 resources for assessment

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

EVIDENCE GUIDE

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 decorative tiling
- hand and power tools, plant and equipment appropriate to decorative 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:

- competency will need to be demonstrated over a period of time reflecting the scope of the role

EVIDENCE GUIDE

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, where specified
- MSDS

RANGE STATEMENT

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:

- memos
- regulatory and legislative requirements pertaining to decorative tiling
- relevant Australian standards
- safe work procedures relating to decorative 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.
- include:

Tools and equipment:

RANGE STATEMENT

- buckets
- caulking guns
- levelling equipment
- lump hammers
- measuring tapes and rules
- meter heating devices
- nippers
- pointed grouters
- power drills
- rags
- rubber mallets
- scrapers
- shovels
- spacers and wedges
- sponges
- squares
- squeegees
- straight edges
- stringlines
- tile cutters and scribes
- trowels
- wooden floats
- may include:
 - concrete mixers
 - masonry drill bits.

Quality requirements include relevant regulations, including:

- Australian standards
- internal company quality policy and standards
- manufacturer specifications
- workplace operations and procedures.

Materials include:

- adhesives
- caulking compound
- cement mortar (with and without additives)
- grout
- patterns
- tiles.

Environmental requirements include:

- clean-up management
- dust and noise
- vibration

RANGE STATEMENT

- Patterns* are to be formed from:
- waste management.
 - principles of design relating to the architectural style required.
- Types of *tiles* include:
- ceramic
 - glass
 - porcelain
 - stone
 - terracotta
 - tessellated.
- Client* includes:
- a builder
 - a customer
 - an architect
 - an interior designer.
- Decorative design* is to conform to:
- advanced setting out techniques to achieve a whole room joint alignment or heritage effect.
- Substrate surfaces* include:
- fibre cement sheet
 - brickwork
 - blockwork
 - concrete walls
 - timber
 - rendered surfaces
 - other waterproof surfaces.

Unit Sector(s)

Unit sector Construction

Co-requisite units

Co-requisite units Nil

Functional area

Functional area