



Australian Government

Department of Education, Employment and Workplace Relations

CPCPSN3014A Install and fit off sanitary fixtures

Release: 1

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Modification History

Not Applicable

Unit Descriptor

Unit descriptor This unit of competency specifies the outcomes required to install and fit off sanitary fixtures. It applies to the installation of sanitary plumbing, including the connection of discharge pipes to sanitary plumbing and drainage, including soil and waste fixtures.

Application of the Unit

Application of the unit Site location for work application may be either domestic or commercial and may be a new work site or an existing structure being renovated, extended, restored or maintained.

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units

CPCPCM2023A

Carry out OHS requirements

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. Prepare for work.	1.1. Plans and specifications are obtained. 1.2. Safety (OHS) requirements associated with installing and fitting off sanitary fixtures, and workplace environmental requirements, are adhered to throughout the work. 1.3. Quality assurance requirements are identified and adhered to in accordance with workplace requirements. 1.4. Tasks are planned and sequenced in conjunction with others involved in or affected by the work and statutory and regulatory authority requirements. 1.5. Tools and equipment, including personal protective equipment, are selected and checked for serviceability. 1.6. Work area is prepared to support efficient installation and fitting off of sanitary fixtures.
2. Identify installation requirements.	2.1. Position of sanitary fixtures is determined in accordance with plans, specifications and site requirements. 2.2. Quantity and type of materials, including pipe materials required, are calculated from design drawings and specifications. 2.3. Materials and equipment are identified, ordered and collected in accordance with workplace procedures. 2.4. Materials and equipment are checked for compliance with relevant Australian standards, docket and order form, and for acceptable condition. 2.5. Sustainability principles and concepts are applied to work preparation and application.
3. Install and fit off sanitary fixtures.	3.1. Set out is checked for compliance with design drawings, manufacturers' instructions, relevant authority requirements and information. 3.2. Fixtures are positioned and installed to comply with plans, specifications and manufacturer requirements. 3.3. Fixtures, components and pipework are assembled, installed and tested to manufacturer requirements, job specification and relevant Australian standards. 3.4. Fixtures are installed and connected without damage or distortion to fixture, pipework, surrounding environment or other services. 3.5. Completed installation is checked for correct

ELEMENT	PERFORMANCE CRITERIA
	functioning and compliance with specifications.
4. Clean up.	4.1. Work area is cleared, with materials disposed of, reused or recycled according to legislation, regulations, codes of practice and job specification. 4.2. Tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturer recommendations and workplace procedures. 4.3. Documentation is completed in accordance with workplace requirements.

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:
 - access information
 - enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
 - follow instructions
 - identify requirements
 - plan and sequence tasks with others
 - read and interpret:
 - documentation from a variety of sources
 - drawings and specifications
 - use language and concepts appropriate to cultural differences
 - use and interpret non-verbal communication, such as hand signals
- written skills to:
 - complete workplace documentation
 - record plans
- identifying and accurately reporting to appropriate personnel any faults in tools, equipment or materials
- installing sanitary plumbing, including connecting discharge pipes to sanitary plumbing and drainage and installing sanitary fixtures

REQUIRED SKILLS AND KNOWLEDGE

- 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:
 - access and understand site-specific instructions in a variety of media
 - use mobile communication technology.

Required knowledge

Required knowledge for this unit is:

- accessing information and the processes for calculating material requirements
- characteristics and the application of different pipe fittings and fixture supports, including fixing and joining techniques
- job safety analysis (JSA) and safe work method statements (SWMS)
- levelling and alignment processes
- performance measures and characteristics of sanitary fixtures
- process of installing and fitting off sanitary fixtures
- relevant statutory, authority and manufacturer requirements related to installing and fitting off sanitary fixtures
- SI system of measurements
- 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 providing that simulated or project-based assessment techniques fully replicate plumbing and services 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:

- locating, interpreting and applying relevant information, Australian standards and specifications to install and fit off sanitary fixtures
- applying safety requirements throughout the work sequence, including electrical requirements and the use of personal protective clothing and equipment
- as a minimum the ability to, given the plans and specifications, set out, install and fit off the following sanitary fixtures: a water closet, shower base, sink, bath, basin, dishwashing machine, and a wall hung urinal, ensuring:
 - correct identification of location, design and details of the proposed installations
 - correct selection and use of appropriate processes, tools and equipment
 - completing all work to specification
 - compliance with regulations, relevant Australian standards and organisational quality procedures and processes
 - application of sustainability principles and concepts
 - communicating and working effectively and safely with others.

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:

- an induction procedure and requirement
- realistic tasks or simulated tasks covering the minimum 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 working 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:

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- 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.

Safety (OHS) is to be in accordance with commonwealth, state and territory legislation and regulations and may include:

- handling of materials
- hazard control
- personal protective clothing and equipment prescribed under legislation, regulations and

RANGE STATEMENT

	- workplace policies and practices - safe operating procedures, including recognising and preventing hazards associated with: - electricity - hazardous materials and substances - services - surrounding structure and facilities - trip hazards - use of tools and equipment - work site visitors and the public - working at heights - working in confined spaces - working in proximity to others - use of firefighting equipment - use of first aid equipment - workplace environment and safety.
Environmental requirements may include:	- clean-up protection - waste management.
Quality assurance requirements may include:	- Environment Protection Authority (EPA) - environment policy - internal company quality assurance policy and risk management strategy - International Standards Organisation - site safety plan - workplace operations and procedures.
Statutory and regulatory authorities include:	commonwealth, state and local authorities administering applicable Acts, regulations and codes of practice.
Tools and equipment may include:	- hand and power tools - heating, cutting and bending equipment - ladders - lifting and load shifting equipment, including: - chain blocks - elevated work platforms - forklifts - hand trolleys - hoists and jacks - restricted height scaffolding

RANGE STATEMENT

Sanitary fixtures are as authorised and may include:

- rollers
- measuring equipment.
- basins
- baths
- clothes washing machines
- dishwashing machines
- shower bases
- sinks
- spa baths
- troughs
- wall hung urinals
- water closets.

Materials to connect sanitary fixtures are to include:

- copper
- copper alloy
- high density polyethylene (HDPE)
- PVC
- sanitary fixtures
- stainless steel pipes
- other approved materials.

Pipe materials may include:

- copper
- copper alloy
- polymer
- stainless steel pipes
- other approved materials.

Sustainability principles and concepts:

- cover the current and future social, economic and environmental use of resources
- may include:
 - appropriate component selection that has minimal environmental impact
 - efficient energy and water use
 - efficient use and recycling of material
 - use of sustainable water efficient products
 - correct handling of hazardous materials
 - disposal of waste material to ensure minimal environmental impact.

Information may include:

- charts and hand drawings
- diagrams or sketches
- instructions issued by authorised organisational or external personnel

RANGE STATEMENT

- job drawings
- manufacturer specifications and instructions
- material safety data sheets (MSDS)
- memos
- organisation work specifications and requirements
- regulatory and legislative requirements, particularly those pertaining to:
 - building codes
 - OHS and environmental requirements
 - plumbing regulations
- relevant Australian standards
- safe work procedures relating to installing and fitting off sanitary fixtures
- signage
- verbal, written and graphical instructions
- work bulletins
- work schedules, plans and specifications.

Unit Sector(s)

Unit sector Plumbing and services

Co-requisite units

Co-requisite units Nil

Functional area

Functional area