



Australian Government

Department of Education, Employment and Workplace Relations

LMFKB4004A Determine spatial planning considerations for bathroom design

Revision Number: 1

LMFKB4004A Determine spatial planning considerations for bathroom design

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit of competency covers the skills and knowledge required to examine space requirements and usage patterns for bathrooms and determine planning considerations for designs.
------------------------	--

Application of the Unit

Application of the unit	This unit of competency applies to work conducted by bathroom designers in the analysis of design requirements. It includes analysis of services, regulatory requirements, storage requirements and applications to determine implications for bathroom design.
--------------------------------	---

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		

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. Determine bathroom usage and traffic flow patterns	<p>1.1. Key use zones for bathrooms are identified and prime activities and associated appliances, fixtures and fittings determined</p> <p>1.2. Traffic flow patterns and considerations for space are identified</p>
2. Examine layout options	<p>2.1. Location of services is identified and implications for relocation determined</p> <p>2.2. Range of layout options and traffic flow implications are examined</p> <p>2.3. Suitability of layout options for space is analysed and limitations and benefits determined</p>
3. Determine storage options	<p>3.1. Storage requirements of bathrooms are identified</p> <p>3.2. Storage options are examined for suitability to bathroom spaces and implications for design determined</p> <p>3.3. Dimensions and space requirements of standard storage options are identified for design</p>
4. Assess bathroom ergonomic considerations	<p>4.1. Basic principles of ergonomics are examined and used to determine space planning implications</p> <p>4.2. Requirements for working height are identified</p> <p>4.3. Manual handling considerations for design are identified</p> <p>4.4. Storage principles are considered to determine implications for design</p> <p>4.5. Special considerations for children, older people and/or disabled people are taken into account where applicable</p>
5. Examine requirements for bathroom appliances, fixtures and fittings	<p>5.1. Key appliances, fixtures and fittings used in bathrooms are identified and standard dimensions, clearances and required services determined</p> <p>5.2. Manufacturer guidelines and statutory regulations regarding the placement and installation of appliances, fixtures and fittings are identified and implications for design examined</p> <p>5.3. Space implications for appliances, fixtures and fittings are analysed and implications for design determined</p>
6. Determine planning considerations for services	<p>6.1. Regulations regarding the location of power outlets and lighting, and electrical work undertaken are identified</p> <p>6.2. Regulations regarding the location of plumbing outlets and plumbing work undertaken are identified</p>

ELEMENT	PERFORMANCE CRITERIA
	<p>6.3.Regulations regarding the location of gas outlets and gas plumbing work undertaken are identified</p> <p>6.4.Implications of service requirements on bathroom design are determined</p> <p>6.5.Lighting sources are examined and requirements for bathroom design determined</p>

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- Accessing and interpreting workplace information
- Applying safety procedures
- Research skills
- Assessing implications
- Translating information to space planning

Required knowledge

- Features of bathroom components
- State or territory occupational health and safety (OHS) legislation, regulations, standards and codes of practice relevant to bathroom and laundry designs
- Characteristics of storage, appliance, fittings and fixtures, lighting and service options
- Information resources

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

Assessment processes and techniques must be culturally appropriate and appropriate to the language, literacy and numeracy capacity of the candidate and the work being performed.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- Access and interpret bathroom design information
- Determine limitations and benefits of different spatial planning options used in bathroom design
- Identify ergonomic considerations for bathroom designs
- Identify regulatory considerations for bathroom designs
- Determine the implications of appliances, fixtures, fittings, storage options and usage patterns on bathroom designs

Context of and specific resources for assessment

- The application of competency is to be assessed in the workplace or realistically simulated workplace
- Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints
- Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to comply with relevant regulatory or Australian Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - work related information resources

Method of assessment

- Assessment must satisfy the endorsed assessment guidelines of the Furnishing Industry Training Package
- Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge
- Assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure correct interpretation and

EVIDENCE GUIDE

	<p>application</p> <ul style="list-style-type: none">• Assessment may be applied under project related conditions (real or simulated) and require evidence of process• Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances• Assessment may be in conjunction with assessment of other units of competency
--	---

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.

Key use zones for bathrooms	Key use zones for bathrooms may include: <ul style="list-style-type: none"> • cleaning • showering • bathing • washing • drying • ironing • toiletry • dressing • laundry • storage
Considerations	Considerations may include: <ul style="list-style-type: none"> • floor clearances • traffic clearances • space requirements for reaching, bending and crouching • additional space requirements for areas such as dressing areas, make up areas and ironing
Range of layout options	Range of layout options relates to: <ul style="list-style-type: none"> • placement of showers, baths, spas, shower screens, toilets, bidets, basins, vanities and washing areas
Storage requirements	Storage requirements may include: <ul style="list-style-type: none"> • linen • cleaning materials • make up and personal items • jewellery • toiletries
Storage options	Storage options may include: <ul style="list-style-type: none"> • cupboards and drawers

RANGE STATEMENT	
	<ul style="list-style-type: none">• wire shelving• baskets• mobile storage unit• railing• shelves• pantry• swing out cupboards• extension worktops• base cupboards• overhead cupboards• fold out ironing boards

RANGE STATEMENT	
Basic principles of ergonomics	Basic principles of ergonomics may include <ul style="list-style-type: none"> • clearance - minimum spatial tolerances for access • reach - maximum spatial tolerances
Storage principles	Storage principles may include: <ul style="list-style-type: none"> • importance of items • frequency of use • function • sequence of use
Key appliances, fixtures and fittings	Key appliances, fixtures and fittings may include: <ul style="list-style-type: none"> • shower, shower screen and shower head • toilet and bidet • bath and spa • washing basket • washing machine, dryer and iron • vanities, taps and sinks • cabinets • towel racks
Lighting sources	Lighting sources may include: <ul style="list-style-type: none"> • incandescent • fluorescent • halogen or dichroic • natural light

Unit Sector(s)

Unit sector	Kitchens and bathrooms
--------------------	------------------------

Competency field

Competency field	
-------------------------	--

Co-requisite units

Co-requisite units		