



Australian Government

MSFKB4010 Determine spatial planning considerations for bathroom design

Release: 1

MSFKB4010 Determine spatial planning considerations for bathroom design

Modification History

Release 1. Supersedes and is equivalent to MSFKB4004 Determine spatial planning considerations for bathroom design.

Application

This unit describes the skills and knowledge required to examine the various space requirements and options for bathroom designs. It includes the need to determine the planning and contractual issues arising from work subject to compliance requirements.

This unit applies to bathroom designers who use discretion, judgement and problem solving in the analysis of design requirements.

Licensing, legislative or certification requirements may apply to this unit and relevant state/territory and local government agencies should be consulted to determine any necessary certification or licensing for undertaking kitchen and bathroom work.

Industry standards and codes of practice within Australia must also be applied Access to construction sites requires certification of general induction training specified by the National Code of Practice for Induction for Construction Work (ASCC 2007).

Pre-requisite Unit

N/A

Unit Sector

Kitchens and Bathrooms

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine project requirements	1.1 Establish communication with the client and obtain information regarding the client needs and expectations 1.2 Determine design parameters and constraints based on client requirements and review of the site 1.3 Take accurate site measurements and record and identify location of current services for impact on design

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Accurately document project requirements
2. Examine layout options	2.1 Identify key use zones for bathrooms and determine prime activities and associated sanitaryware, fixtures and fittings in the context of the brief 2.2 Identify traffic flow patterns and considerations for space based on client requirements 2.3 Identify location of services and determine implications for relocation 2.4 Identify the need or potential for structural change based on scope of the brief 2.5 Analyse suitability of layout options for space and determine limitations and benefits based on information gathered
3. Determine storage options	3.1 Identify storage requirements of bathrooms from brief and client information 3.2 Examine storage options for suitability to bathroom spaces and determine implications for design 3.3 Identify for design, dimensions and space requirements of standard and potential customised storage options
4. Assess bathroom ergonomic considerations	4.1 Examine and use basic principles of ergonomics to determine space planning implications 4.2 Identify requirements for working height based on specific client needs 4.3 Identify manual handling considerations for bathroom design tailored to client needs 4.4 Consider storage principles to determine implications for design 4.5 Take into account special considerations for children, older people and/or disabled people in accordance with brief or client needs
5. Examine requirements for appliances, fixtures and fittings	5.1 Determine manufacturer guidelines and statutory regulations regarding the placement and installation of sanitaryware 5.2 Establish space implications for appliances and determine implications for design
6. Determine planning and contractual considerations	6.1 Recognise the need for work or change that is subject to compliance requirements based on outcomes of assessment 6.2 Determine and integrate implications of structural work and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	relocation or change to service requirements into the design process 6.3 Identify and organise the need for specialist expertise and advice
7. Collate and document information	7.1 Analyse, collate and combine information gathered based on the needs of the project 7.2 Document information from assessment in a format that allows for easy reference as the design project progresses.

Foundation Skills

The Foundation Skills describe those required skills (such as, language, literacy, numeracy and employment skills) that are essential to performance:

- technology skills to document information to inform design using digital media.

Other foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to MSFKB4004 Determine spatial planning considerations for bathroom design.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFKB4010 Determine spatial planning considerations for bathroom design

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- determined and documented spatial planning considerations for 3 different bathrooms, 1 of which must be a renovation, and 1 of which must be a new build.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- liveable housing design – current and emerging thinking and trends
- principles of ergonomics and their application to bathroom design:
 - clearance (minimum spatial tolerances for access)
 - reach (maximum spatial tolerances and workspace envelope)
- factors for consideration in planning bathroom spaces:
 - additional space requirements often incorporated into bathrooms for functions such as dressing, ironing, make-up areas
 - installation requirements
 - clearances – floor, traffic
 - space requirements for reaching, bending and crouching
- ways of collating and documenting information to inform the design process and how to develop itemised schedules
- aspects of bathroom design:
 - layout options, including placement of:
 - basins
 - baths and/or spas
 - lighting
 - power
 - showers and shower screens
 - toilets and bidets
 - vanities
 - ventilation
 - use zones:

- bathing and/or showering
- drying
- other ancillary uses
- storage - common requirements, options and storage principles
- types, characteristics, uses and spatial requirements for different appliances, fixtures and fittings, including:
 - shower, shower screen and shower head
 - toilet and bidet
 - bath and spa
 - laundry related items
 - vanities, taps and sinks
 - cabinets
 - towel racks
- types, characteristics and use of different lighting and ventilation options, both natural and artificial
- types of work impacted by planning and building regulations, and the requirements and regulations that apply, including licensing requirements for:
 - electrical (power and lighting)
 - glazing (shower doors, shower screens, bath enclosures, windows, mirrors)
 - painting
 - plumbing
 - structural changes
 - structural changes (movement of walls, installation of new flooring)
 - tiling
 - waterproofing.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - design briefs
 - sites for bathroom designs
 - measuring equipment
 - information technology for document creation.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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