



Australian Government

MSFKB4005 Research and recommend materials, components and finishes for bathroom designs

Release: 1

MSFKB4005 Research and recommend materials, components and finishes for bathroom designs

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers researching and analysing materials, components and finishes, and making recommendations to meet the requirements of a bathroom design brief. It includes evaluation of options and presentation of the design information to clients.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Competency Field

Unit Sector

Kitchens and Bathrooms

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Identify requirements of bathroom design brief	1.1 Design brief is reviewed to determine required outcomes for bathroom design
	1.2 Parameters for the project are assessed and confirmed
	1.3 Resources are selected appropriate to work requirements and checked for operational effectiveness
2 Identify types and features of bathroom materials, components and finishes	2.1 Materials used in bathroom applications are examined and suitability to meet design brief determined
	2.2 Components used in bathrooms are examined and suitability to meet design brief determined
	2.3 Finishes used in bathroom applications are examined and suitability to meet design brief determined

		2.4	New material technologies are researched and suitability to meet design brief determined
3	Identify suitable options to meet design brief	3.1	Materials, components and finishes that meet client brief requirements are identified
		3.2	Options are selected for further analysis and design development
4	Evaluate the functional and aesthetic characteristics of selection	4.1	Elements and principles of design are used to examine the appropriateness of materials, components and finishes for client brief requirements
		4.2	Application methods and available expertise for the desired effect are assessed
		4.3	Costs of materials, components and finishes are assessed and compared
		4.4	Environmental and sustainability considerations for materials, components and finishes are examined
		4.5	Waterproof quality of bathroom materials, components and finishes are examined
		4.6	Aesthetic qualities are assessed with regard to desired effect
		4.7	Longevity and restorability of materials, components and finishes are researched
		4.8	Hazards associated with the use and application of materials, components and finishes are researched
		4.9	Quality of materials, components and finishes are assessed
5	Select and recommend materials, components and finishes	5.1	Materials, components and finishes are selected to meet client brief requirements
		5.2	Presentation of research information is made, highlighting the findings and rationale for selection
		5.3	A range of presentation strategies is included in presentation
6	Document recommendations	6.1	Specifications of selection are documented
		6.2	Samples are stored for further use

6.3 Selection is integrated into design drawings and plans

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit context includes:

- work health and safety (WHS) requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent
- work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
- work requires individual to demonstrate some discretion, judgement and problem solving in the specification of materials, components and finishes as part of the design process

Design brief includes:

- client needs and objectives
- milestones
- functional requirements
- budget
- timelines
- consultation requirements
- colour requirements

Parameters include:

- budget range
- colour range
- timelines
- space dimensions
- structural characteristics
- services

Resources include:

- computers
- computer software
- design software
- computer-aided design (CAD) software
- colour boards
- storyboards
- swatches
- pantone matching system (PMS)
- journals (directions magazines)
- artistic equipment and products
- model making equipment

Materials include:

- particleboard
- high moisture resistant particleboard
- plywood
- high pressure laminate
- low pressure laminate
- vinyl/foil wrap
- resin-based solid surfaces
- solid stone
- reconstituted stone
- timber
- timber veneer
- paint
- glass
- stainless steel
- tiles

Bathrooms applications include:

- bench tops
- splashbacks
- drawers
- cabinets
- kickboards/plinths/legs
- floors
- walls
- shelving
- showers
- baths/spas

Components include:

- handles
- runners
- hinges
- rails
- sinks

Finishes include:

- baskets
- toilets
- bidets
- edging and edge profiles
- paints
- waxes
- lacquers
- stains
- pigments
- oils
- plastic coatings
- veneers
- ceramics
- stone
- glass
- textiles and other textures
- waterproofing finishes

Elements and principles of design include:

- line
- shape
- form
- texture and colour
- balance
- proportion (symmetry and asymmetry)
- harmony
- contrast
- pattern
- movement
- rhythm
- unity
- style
- focus
- scale
- emphasis
- proximity
- alignment
- space
- ergonomics
- arrangement
- aesthetic relations
- tension
- development methods

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| Hazards include: | <ul style="list-style-type: none">• toxins and gases released by some finishes• glues and materials which may be harmful to people if not used correctly |
| Presentation strategies include: | <ul style="list-style-type: none">• materials and concept boards• swatches and samples• quotes• drawings• models• plans |

Unit Mapping Information

Supersedes and is equivalent to LMFKB4005A Research and recommend materials, components and finishes for bathroom designs.

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 MSFKB4005 Research and recommend materials, components and finishes for bathroom designs

Modification History

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Performance Evidence

- Interpret and analyse bathroom design briefs, including liveability design requirements
- Research relevant manufacturer and supplier information in order to select and specify bathroom materials, components and finishes that meet a design brief, including features, quality, costs, sustainability and aesthetic requirements
- Present advice on bathroom materials, components and finishes to meet client requirements, including samples and documented costing
- Use mathematical ideas and techniques to correctly complete measurements and estimate and cost material requirements
- Communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of work outcomes and problems, interpret basic plans and follow safety procedures
- Avoid backtracking, work flow interruptions or wastage
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity

Knowledge Evidence

- Features of bathroom materials and components
- State or territory WHS legislation, regulations, standards and codes of practice relevant to bathrooms designs
- Information resources
- Elements and principles of design
- Research techniques
- Effects of finishes and finishing techniques
- Procedures for the recording, reporting and maintenance of workplace records and information
- Appropriate mathematical procedures for estimation and measurement
- Environmental protection requirements
- Established communication channels and protocols
- Relevant problem identification and resolution techniques

Assessment Conditions

- Assessors must:

- hold training and assessment competencies as determined by the National Skills Standards Council (NSSC) or its successors
- have vocational competency in the furnishing industry at least to the level being assessed with broad industry knowledge and experience, usually combined with a relevant industry qualification
- be familiar with the current skills and knowledge used and have relevant, current experience in the furnishing industry.
- Assessment methods must confirm consistency of performance over time rather than a single assessment event and in a range of workplace relevant contexts.
- Assessment must be by observation of relevant tasks with questioning on underpinning knowledge and, where applicable, supervisor's reports and completed bathroom design projects and work samples.
- Assessment is to be conducted on single units of competency or in conjunction with other related units of competency. Foundation skills are integral to competent performance in the unit and should not be assessed separately.
- Assessment must occur on the job or in a workplace simulated facility with relevant process, equipment, materials, work instructions and deadlines.
- Access is required to work-related information resources.

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