



Australian Government

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

Release: 1

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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
- baskets
- toilets
- bidets

Finishes include:

- edging and edge profiles
- paints
- waxes
- lacquers
- stains
- pigments
- oils
- plastic coatings
- veneers

**Elements and principles
of design include:**

- ceramics
- stone
- glass
- textiles and other textures
- waterproofing finishes
- 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

Hazards include:

- toxins and gases released by some finishes
- glues and materials which may be harmful to people if not used correctly

**Presentation strategies
include:**

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