



**Australian Government**

# **MSFID4006 Research and recommend hard materials and finishes for interiors**

**Release: 1**

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## **Modification History**

Release 1 - New unit of competency

## **Application**

This unit of competency covers researching and recommending hard materials and finishes for various interior decoration and design solutions and applies to a design and decoration retail, consulting or studio environment.

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

## **Pre-requisite Unit**

## **Competency Field**

## **Unit Sector**

Interior Decoration and Design

## **Elements and Performance Criteria**

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- |   |                                                               |     |                                                                                                                                                                                          |
|---|---------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Identify hard material and finishing requirements for project | 1.1 | Applicable work health and safety (WHS), legislative and organisational requirements relevant to researching and recommending hard materials and finishes are verified and complied with |
|   |                                                               | 1.2 | Project brief is reviewed to determine desired effects for interior space                                                                                                                |
|   |                                                               | 1.3 | Parameters for the project are assessed and confirmed with client                                                                                                                        |
|   |                                                               | 1.4 | Resources are selected appropriate to work requirements and checked for operational effectiveness                                                                                        |
|   |                                                               | 1.5 | Communication with appropriate personnel is established                                                                                                                                  |

- and maintained
- 2 Identify types and features of hard materials and finishes
    - 2.1 Types of hard materials and finishes and their suitability to wall, floor, ceiling and stair applications are identified
    - 2.2 Types of hard materials and finishes and their suitability to window and door applications are identified
    - 2.3 Other hard material and finish products and their features and applications are identified
    - 2.4 Hard material and finish requirements for application in a residential environment are analysed
    - 2.5 Hard material and finish requirements for application in a commercial or industrial environment are analysed
    - 2.6 Environmental and sustainability considerations for hard materials and finishes are examined
  - 3 Research hard materials and finishes
    - 3.1 Aesthetic requirements of the space are assessed
    - 3.2 New hard material and finish technologies are researched and reported
    - 3.3 Tactile requirements of the hard materials and finishes in relation to the design are researched
    - 3.4 Application methods and available expertise for the desired effect are assessed
    - 3.5 Manufacturing processes and available expertise for the desired material and finish are assessed
    - 3.6 Costs of hard materials and finishes are assessed and compared
    - 3.7 Environmental impact of hard materials and finishes are assessed
    - 3.8 Longevity and restorability of hard materials and finishes are researched
    - 3.9 Hazards associated with the use and application of hard materials and finishes are researched
    - 3.10 Quality of hard materials and finishes are assessed

- |   |                                       |     |                                                                                                                                                                                  |
|---|---------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | Recommend hard materials and finishes | 4.1 | Elements and principles of design, including liveability and accessibility, are used to examine the appropriateness of hard materials and finishes for client brief requirements |
|   |                                       | 4.2 | Hard materials and finishes are selected to meet client brief requirements                                                                                                       |
|   |                                       | 4.3 | Presentation of research information is made highlighting the findings and rationale for the hard materials and finishes chosen                                                  |
|   |                                       | 4.4 | Presentation includes a range of presentation strategies, including one or more materials boards                                                                                 |

## 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:**

- 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, Liveable and Accessible Housing Design guidelines, and organisation insurance requirements
- work requires individual to demonstrate discretion, judgement and problem solving, plus self-management and learning skills

**Hard materials and finishes include:**

- paints
- waxes
- lacquers
- stains
- pigments
- oils
- traditional finishes
- plastic coatings
- UV-protected coatings
- liquid coatings
- synthetic coatings
- synthetics
- paper
- glass
- vinyls
- laminates
- plastics
- stainless steel
- metals
- veneers
- ceramics
- stone-based products
- solid timber (native and imported)
- manufactured timber products

- reconstituted products
  - composite materials
  - fibreglass
  - foam
  - cardboard
  - paper products
  - any other manipulable substance
- Project brief includes:**
- client needs and objectives
  - client aims and objectives, and criteria for evaluation
  - milestones
  - organisational or personal profiles and aims
  - image requirements and function
  - target market
  - budget
  - timeline
  - consultation requirements
  - colour requirements
- Parameters include:**
- scope of brief
  - approval to make changes
  - effect or feel trying to be achieved
  - functionality (short and long term)
  - budget restrictions
  - established timelines
- Clients include:**
- suppliers
  - manufacturers
  - private clients
  - colleagues
  - retailers
  - the public
- Resources include:**
- computers
  - computer software
  - design software
  - computer-aided design (CAD) software
  - colour boards
  - storyboards
  - swatches
  - product based colour systems, such as Munsell or similar
  - colour matching system, such as Pantone Matching System (PMS)
  - journals (directions magazines)
  - artistic equipment and products
  - model making equipment

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate personnel include:</b>        | <ul style="list-style-type: none"><li>• trainers</li><li>• supervisors</li><li>• suppliers</li><li>• clients</li><li>• colleagues</li><li>• managers</li></ul>                                                                                                                                                                                                                                                         |
| <b>Aesthetics include:</b>                   | <ul style="list-style-type: none"><li>• the consideration of appeal to a large number of people; products are pleasing to the eye of many who view it</li></ul>                                                                                                                                                                                                                                                        |
| <b>Tactile includes:</b>                     | <ul style="list-style-type: none"><li>• that perceived by the sense of touch and producing the effect of three-dimensional depth</li></ul>                                                                                                                                                                                                                                                                             |
| <b>Application methods include:</b>          | <ul style="list-style-type: none"><li>• spraying</li><li>• painting</li><li>• applicators</li><li>• gluing</li><li>• vacuum wrapping</li><li>• rubbing</li><li>• bonding</li></ul>                                                                                                                                                                                                                                     |
| <b>Manufacturing processes include:</b>      | <ul style="list-style-type: none"><li>• the methods by which the product will be produced, these steps requires working from working drawings and specifications, producing components utilising machine operations, assembly of the components and finishing techniques</li></ul>                                                                                                                                     |
| <b>Environmental impacts include:</b>        | <ul style="list-style-type: none"><li>• how the sourcing and use of materials effects the environment and how its continued use will affect the area the material was sourced from</li><li>• energy consumption in processing the material</li><li>• greenhouse gases created</li><li>• waste levels and resource utilisation</li><li>• what impact will be felt by reducing or stopping use of the material</li></ul> |
| <b>Longevity and restorability includes:</b> | <ul style="list-style-type: none"><li>• an analysis of how long the material is expected to maintain its structure and colour, while maintaining quality of aesthetic value and how readily the material can be upgraded, repaired or replaced</li></ul>                                                                                                                                                               |
| <b>Hazards include:</b>                      | <ul style="list-style-type: none"><li>• toxins and gases released by some finishes, glues and materials which may be harmful to people if not used correctly</li></ul>                                                                                                                                                                                                                                                 |
| <b>Elements of design include:</b>           | <ul style="list-style-type: none"><li>• line</li><li>• shape</li><li>• form (geometric or organic)</li><li>• texture</li><li>• colour</li><li>• function</li></ul>                                                                                                                                                                                                                                                     |

**Principles of design include:**

- balance
- proportion (symmetry and asymmetry)
- harmony
- contrast
- pattern
- movement
- rhythm
- unity
- style
- focus
- scale
- dominant
- sub-dominant
- subordinate relationship
- emphasis
- proximity
- alignment
- space
- anthropometry
- ergonomics
- arrangement
- workload materials handling capacity
- skills available
- equipment capabilities
- aesthetic relations
- tension
- development methods

**Personal protective equipment includes:**

- that prescribed under legislation, regulations and enterprise policies and practices

**Information and procedures include:**

- work instructions, including plans, drawings and designs
- workplace procedures relating to reporting and communication
- manufacturer specifications and operational procedures

## Unit Mapping Information

Supersedes and is equivalent to LMFID4006A Research and recommend hard materials and finishes for interiors.

## Links

Companion Volume implementation guides are found in VETNet -  
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>