



Australian Government

Department of Education, Employment and Workplace Relations

LMFID4006A Research and recommend hard materials and finishes for interiors

Revision Number: 1

LMFID4006A Research and recommend hard materials and finishes for interiors

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit specifies the outcomes required to research and recommend hard materials and finishes for various interior decoration and design solutions.
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Application of the Unit

Application of the unit	<p>This unit supports the attainment of skills and knowledge required for competent research and recommendation of hard materials including a range of finishes and applies to a design and decoration retail, consulting or studio environment. These skills and knowledge are to be used within the scope of the person's job and authority.</p> <p>This unit requires employability skills in initiative and enterprise and problem solving in order to direct the research and selection of suitable hard materials.</p> <p>Communication skills are used to access and interpret information using information technologies and complete required documentation. Self management and learning skills are applied in the review of information and arrangements to ensure project needs are met.</p>
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Identify hard material requirements for project	<p>1.1. Applicable <i>OHS, legislative</i> and <i>organisational</i> requirements relevant to researching and recommending <i>hard materials</i> are verified and complied with</p> <p>1.2. <i>Project brief</i> is reviewed to determine desired effects for interior space</p> <p>1.3. <i>Parameters</i> for the project are assessed and confirmed with <i>client</i></p> <p>1.4. <i>Resources</i> are selected appropriate to work requirements and checked for operational effectiveness</p> <p>1.5. <i>Communication</i> with <i>appropriate personnel</i> is established and maintained</p>
2. Identify types and features of hard materials	<p>2.1. Types of hard materials and their suitability to wall, floor, ceiling and stair applications is identified</p> <p>2.2. Types of hard materials and their suitability to window and door applications are identified</p> <p>2.3. Other hard material products and their features and applications are identified</p> <p>2.4. Hard material requirements for application in a residential environment are analysed</p> <p>2.5. Hard material requirements for application in a commercial or industrial environment are analysed</p> <p>2.6. Environmental and sustainability considerations for hard materials are examined</p>
3. Research hard materials	<p>3.1. <i>Aesthetic</i> requirements of the space are assessed</p> <p>3.2. New hard material technologies are researched and reported</p> <p>3.3. <i>Tactile</i> requirements of the hard materials in relation to the design are researched</p> <p>3.4. <i>Application methods</i> and available expertise for the desired effect are assessed</p> <p>3.5. <i>Manufacturing processes</i> and available expertise for the desired material are assessed</p> <p>3.6. Costs of hard materials are assessed and compared</p> <p>3.7. <i>Environmental impact</i> of hard materials are assessed</p> <p>3.8. <i>Longevity and restorability</i> of hard materials are researched</p> <p>3.9. <i>Hazards</i> associated with the use and application of hard materials are researched</p> <p>3.10. Quality of hard materials are assessed</p>
4. Recommend hard	4.1. <i>Elements and principles of design</i> are used to

ELEMENT	PERFORMANCE CRITERIA
materials	<p>examine the appropriateness of hard materials for client brief requirements</p> <p>4.2. Hard materials are selected to meet client brief requirements</p> <p>4.3. Presentation of research information is made, highlighting the findings and rationale for the hard materials chosen</p> <p>4.4. Presentation includes a range of presentation strategies including one or more materials boards</p>

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- collecting, organising and understanding information related to work briefs, basic plans and safety procedures
- communicating ideas and information
- accurately recording and maintaining information
- using computer operations for internet access and searches
- analysing performance characteristics
- comparing findings
- communicating with suppliers
- maintaining accurate records
- clarifying and checking taskrelated information
- carrying out work according to OHS practices
- recognising and responding to circumstances outside instructions or personal competence
- efficiently and safely contributing to innovative interior decoration and design processes
- using mathematical ideas and techniques to correctly complete measurements, calculate area and volume, and estimate other material requirements
- maintaining current knowledge of interior decoration and design techniques
- using the workplace technology related to the use of tools including calculators, measuring and recording devices

Required knowledge

- State or Territory OHS legislation, regulations, standards and codes of practice relevant to researching and recommending hard materials
- organisational and site standards, requirements, policies and procedures for researching and recommending hard materials
- elements and principles of design
- aesthetic values
- types of tools and equipment and procedures for their safe use, operation and maintenance
- characteristics of materials, products and defects
- computer programs
- research techniques
- effects of finishes and finishing techniques
- storage systems and labelling
- procedures for the recording, reporting and maintenance of workplace records and information

REQUIRED SKILLS AND KNOWLEDGE

- appropriate mathematical procedures for estimation and measurement
- environmental protection requirements
- established communication channels and protocols
- problem identification and resolution

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

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

- Effectively research and select hard materials to assist with informing the design process and arrive at a solution which meets client requirements
- Effectively apply design elements and principles to the research and selection of hard materials
- Effectively research and select hard materials in accordance with the concepts and design brief
- Comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for researching and recommending hard materials
- Communicate effectively and work safely with others in the work area

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
 - materials and equipment relevant to researching and recommending finishes
 - specifications and work instructions

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

EVIDENCE GUIDE	
	<p>tasks and include questioning on underpinning knowledge to ensure its correct interpretation and 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
Guidance information for assessment	

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.

OHS requirements	<ul style="list-style-type: none"> are to be in accordance with Commonwealth, State or Territory legislation and regulations, organisational safety policies and procedures. Requirements may include but not be limited to the use of personal protective equipment and clothing, fire fighting equipment, first aid equipment, hazard and risk control and elimination of hazardous materials and substances, manual handling including lifting and carrying
Legislative requirements	<ul style="list-style-type: none"> are to be in accordance with applicable legislation from all levels of government that affect organisational operation. Requirements may include but not be limited to award and enterprise agreements, industrial relations, Australian Standards, confidentiality and privacy, OHS, the environment, equal opportunity, anti-discrimination, relevant industry codes of practice, duty of care and heritage
Organisational requirements	<ul style="list-style-type: none"> may include but not be limited to legal, organisational and site guidelines, policies and procedures relating to own role and responsibility, quality assurance, procedural manuals, quality and continuous improvement processes and standards, OHS, emergency and evacuation, ethical standards, recording and reporting, access and equity principles and practices, equipment use, maintenance and storage, environmental management (waste disposal, recycling and re-use guidelines)
Hard materials	<ul style="list-style-type: none"> may include but not be limited to paints, waxes, lacquers, stains, pigments, oils, traditional finishes, plastic coatings, UV protected coatings, liquid coatings, synthetic coatings, synthetics, paper, glass, vinyls,

RANGE STATEMENT

	<p>textiles, laminates, plastics, stainless steel, metals, veneers, ceramics and stone based products</p> <ul style="list-style-type: none">• may also include but not be limited to solid timber (native and imported), manufactured timber products, reconstituted products, composite materials, plastic, metal, alloys, stone based products, glass, fibreglass, foam, synthetics, cardboard, paper products or any other manipulable substance
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RANGE STATEMENT	
Project brief	<ul style="list-style-type: none"> may include but not be limited to 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	<ul style="list-style-type: none"> may include but not be limited to scope of brief, approval to make changes, effect or feel trying to be achieved, functionality (short and long term), budget restrictions and established timelines
Client	<ul style="list-style-type: none"> may include but not be limited to suppliers, manufacturers, private clients, colleagues, retailers or the public
Resources	<ul style="list-style-type: none"> may include but not be limited to computers, computer software, design software, computer aided drafting (CAD) software, colour boards, storyboards, swatches, Pantone Matching System (PMS), journals (directions magazines), artistic equipment and products and model making equipment
Communication	<ul style="list-style-type: none"> may include but not be limited to verbal and non-verbal language, constructive feedback, active listening, questioning to clarify and confirm understanding, use of positive, confident and cooperative language, use of language and concepts appropriate to individual social and cultural differences, control of tone of voice and body language
Appropriate personnel	<ul style="list-style-type: none"> may include but not be limited to trainers, supervisors, suppliers, clients, colleagues and managers
Aesthetics	<ul style="list-style-type: none"> may include but not be limited to the consideration of appeal to a large number of people; products are pleasing to the eye of many who view it
Tactile	<ul style="list-style-type: none"> may include but not be limited to that perceived by the sense of touch and producing the effect of three-dimensional depth
Application methods	<ul style="list-style-type: none"> may include but not be limited to spraying, painting, applicators, gluing, vacuum wrapping, rubbing and bonding

RANGE STATEMENT	
Manufacturing processes	<ul style="list-style-type: none"> may include but not be limited to the methods by which the product will be produced, these steps usually entail working from working drawings and specifications, producing components utilising machine operations, assembly of the components and finishing techniques
Environmental impact	<ul style="list-style-type: none"> may include but not be limited to how the making and use of finishes and materials effects the environment and how its continued use will effect those around you, energy consumption in applying the material, greenhouse gases created, waste levels and resource utilisation. Similarly what impact will be felt by reducing or stopping use of the finish or materials
Longevity and restorability	<ul style="list-style-type: none"> may include but not be limited to an analysis of how long the finish or material is expected to last, while maintaining quality of aesthetic value and how readily the finish or material can be upgraded, repaired or replaced
Hazards	<ul style="list-style-type: none"> may include but not be limited to toxins and gases released by some finishes, glues and materials which may be harmful to people if not used correctly
Elements of design	<ul style="list-style-type: none"> may include but not be limited to line, shape, form (geometric or organic), texture and colour
Principles of design	<ul style="list-style-type: none"> may include but not be limited to balance, proportion (symmetry, asymmetry), harmony, contrast, pattern, movement, rhythm, unity, style, focus, scale, dominant, sub-dominant or subordinate relationship, emphasis, proximity, alignment, space, anthropometry, ergonomics, arrangement, aesthetic relations, tension and development methods

Unit Sector(s)

Unit sector	Interior decoration and design.
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Competency field

Competency field	
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Co-requisite units

Co-requisite units		