



Australian Government

Department of Education, Employment and Workplace Relations

LMFFDT4008A Determine occupational health and safety implications of designs

Revision Number: 1

LMFFDT4008A Determine occupational health and safety implications of designs

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the competency to identify and assess the occupational health and safety (OHS) implications of furniture designs.
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Application of the Unit

Application of the unit	This unit supports the attainment of skills and knowledge required for the assessment of furniture designs, including accessories and materials, to determine potential hazards for a range of customer groups and those involved in the production of furniture designs. This unit requires the application of employability skills associated with self management to assess and apply principles of OHS to operations. Communication skills are required to interpret and understand what is required to provide a safe product for self and others. Teamwork skills are required to understand the impact of own performance on the safety of others. This unit also requires the ability to use initiative and enterprise and problem solving strategies to identify and act upon hazards and risks within the workplace, and learning skills to participate in OHS related training.
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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 required performance needed to demonstrate achievement of the Element. Where bold italicised text is used, further information is detailed in the required skills and knowledge and/or 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 principles of OHS	1.1. Duty of care and responsibilities of individuals and organisations are defined 1.2. Concepts of hierarchy of control are identified and related to the workplace 1.3. Codes of practice relating to specific workplace risks are identified 1.4. Importance of a systematic approach to OHS is understood 1.5. Applicable legislative, OHS and organisational requirements relevant to furniture designs are identified 1.6. The furnishing materials to be used and their key characteristics are identified
2. Assess OHS implications for furniture manufacturing	2.1. Hazards associated with materials used in the manufacture of furniture are identified 2.2. Hazards associated with production of furniture are identified 2.3. Safety measures implemented to control hazards to manufacturers are identified and implications for furniture designs evaluated 2.4. Information resources on safety aspects of materials and technology used in the production of furniture are identified and accessed
3. Assess OHS implications for customers	3.1. Range of customers for furniture products are identified and potential hazards for users determined 3.2. Potential hazards associated with components and accessories are identified 3.3. Safety measures implemented to control hazards to users are identified and implications for furniture designs evaluated 3.4. Information resources on safety aspects of furniture design are identified and accessed
4. Assess risk	4.1. Likelihood of hazards causing harm is considered and determined 4.2. Consequence if the event should occur is evaluated and determined 4.3. Risk level (likelihood and consequence combined) is considered and determined
5. Apply risk control measures to furniture design	5.1. Designs are evaluated for OHS implications 5.2. Range of treatments which may eliminate or minimise risks are identified 5.3. Feasible options are subject to detailed analysis including the identification of resource requirements 5.4. Most appropriate treatment for addressing risk is selected and applied to design

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, required for this unit.

Required skills

- collect, organise and understand information related to work orders, basic plans and safety procedures
- communicate ideas and information to enable confirmation of safety and risk management requirements and specifications, coordination of the required work with site supervisor, other workers and customers, and the reporting of safety outcomes and problems
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise safety management
- use pre-checking and inspection techniques to anticipate possible hazards
- recognise and respond to circumstances outside instructions or personal competence
- plan and organise activities, including the preparation and layout of the worksite and the obtaining of treatment equipment and materials to avoid any back tracking, work flow interruptions or wastage
- use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate other material requirements for the management of workplace safety
- clarify and confirm work instructions
- plan work within given task parameters
- accept responsibility for given tasks
- set, monitor and satisfy personal work goals
- satisfy the competency requirements for the job
- maintain current knowledge of workplace safety standards and instructions
- seek learning opportunities
- use the workplace technology related to the risk management, including tools, equipment, calculators and measuring devices.

Required knowledge

- State or Territory OHS legislation, regulations, standards and codes of practice relevant to risk management in a furnishing technology work environment
- organisational and site standards, requirements, policies and procedures for furnishing technology
- types of tools and equipment, their operating characteristics and procedures for their safe use, operation and maintenance
- characteristics of materials, products and defects
- common furnishing technology related hazards and the range of commonly applied treatments
- environmental protection requirements
- established communication channels and protocols
- problem identification and resolution

REQUIRED SKILLS AND KNOWLEDGE

- appropriate mathematical procedures for estimation and measurement
- procedures for the recording, reporting and maintenance of workplace records and information.

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, the Range Statement and the Assessment Guidelines for the relevant Training Package.

Overview of assessment

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

- Comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for risk management in a furniture design work environment
- Locate and apply safety information
- Assess safety aspects of furniture designs for a range of customers
- Address risks and hazards in furniture designs
- To complete a minimum of three risk assessments of furniture designs including the determination of required treatments
- Work effectively with others

Context of, and specific resources for assessment

- The application of competency is to be assessed in the workplace or 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 establishing and maintaining a safe furnishing technology work environment
 - 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 tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application

EVIDENCE GUIDE	
	• 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 in the Performance Criteria is detailed below. Add any 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.

Duty of care	- duty of care requires everything 'reasonably practicable' to be done to protect the health and safety of others at the workplace. This duty is placed on: - all employers - their employees - any others who have an influence on the hazards in a workplace
Responsibilities	- include complying, as far possible, with all activities carried out in accordance with the standard - reporting anything that might affect compliance with the standard
Hierarchy of control	- refers to the range of feasible options for managing the risk to health and safety. The hierarchy normally ranges over the following controls: - elimination of the hazard - its substitution with a less harmful version - its redesign - engineering controls - isolation of the hazard from people at the workplace - safe work practices - redesigning work systems - the use of personal protective equipment by people at the workplace
Systematic approach	includes hazard identification, risk assessment, risk control and review
Legislative requirements	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
OHS requirements	are to be in accordance with Commonwealth, State or Territory legislation and regulations, organisational safety

RANGE STATEMENT

	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, control of hazardous materials and substances, manual handling including lifting and carrying
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RANGE STATEMENT	
Organisational requirements	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)
Materials	- include all materials associated with the furniture product including fabrics, finishes, wood, metal, plastic, paint, foam, oils, animal skin - may also include but not be limited to adhesives, nails, and staples
Hazards associated with materials	may include but not be limited to chemical properties such as toxicity, fumes, combustibility, physical properties such as strength, weakness, splintering, breakage, weight, and components such as adhesives, nails, and staples
Hazards associated with production	may include but not be limited to manual handling, finishing and production processes, use of tools and machinery, dust inhalation, power sources and leads, flying debris, fume inhalation, trips, falls, lack of control during pouring, machine safety and vibration (direct and indirect consequences)
Range of customers	may include but not be limited to aged and the elderly, people with disabilities, children and adults
Potential hazards for users	may include but not be limited to allergies to materials, injury from materials or components, injury due to design faults, lack of stability, breakage and difficult to handle or install
Treatments	may include but not be limited to use of production safety strategies such as dust and fumes extraction systems, materials testing, power source protection, personal protective equipment, use of tested materials and accessories, and use of specialised safety features and components

Unit Sector(s)

Unit sector	Furniture design and technology.
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Competency field

Competency field	
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Co-requisite units

Co-requisite units		