



Australian Government

Department of Education, Employment and Workplace Relations

LMFFM3013B Measure and draw site layout for manufactured furniture products

Revision Number: 1

LMFFM3013B Measure and draw site layout for manufactured furniture products

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the competency to measure and record site layout details to provide an accurate basis for both manufacture and installation of furniture products
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Application of the Unit

Application of the unit	
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil	

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. Obtain measurements	1.1. The purpose of obtaining measurements is clarified and confirmed 1.2. The most appropriate method of obtaining the measurement is selected and applied 1.3. Accurate measurements are obtained, confirmed and recorded 1.4. Calculations required for the measurement or validation are selected and correctly applied 1.5. Quality assurance requirements, standards and tolerances associated with enterprise operations are recognised and adhered to
2. Draw site layout	2.1. The intended use of the site is clarified and confirmed 2.2. A site plan is prepared showing all features and measurements 2.3. A site elevation is completed showing all features and measurements 2.4. The details of the proposed furniture products, including all relevant dimensions are incorporated into the plan and elevation 2.5. Unique and non-complying features which may impact on manufacture and/or installation are highlighted and referred to the appropriate party

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- collect, organise and understand information related to work orders, plans and safety procedures
- communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of work outcomes and problems
- plan and organise activities to avoid any back tracking or workflow interruptions
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow
- use mathematical ideas and techniques to correctly complete measurements, calculate area, perimeter, volume, mass, scales and ratios and estimate material requirements
- use pre-checking techniques to anticipate measurement and drawing problems and avoid reworking
- use workplace technology related to measurement and drawing, including tools, equipment, calculators and measuring devices

Required knowledge

- furniture design and planning criteria
- drawing techniques, technologies and processes
- furniture installation methods, criteria and techniques
- structural geometry
- measurement techniques and equipment/tools
- the theory and practice of calculations (addition, subtraction, multiplication, division)
- conventional signs and markings for plans and drawings

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.

Critical Aspects of Evidence

- Identify the factors relevant to the measurements and drawings
- Communicate effectively to enable accurate calculations, measurements and drawings
- Accurately measure and record particulars for required sector sites and materials
- Draw accurate, scaled plans and elevations relevant to the site using manual or computer-aided methods
- Superimpose the furniture product accurately to scale onto the plan and elevation
- Identify and communicate on measurements and dimensions which may impact on manufacture and/or installation

Resource Implications

Information on the site and products for measurement and calculation, suitable work area appropriate to the activity, suitable site plans/drawings and/or specifications, and measuring, calculating and recording devices.

Method of Assessment

Assessment methods must confirm consistency of performance over time and in a range of workplace relevant contexts.
Assessment should be by direct observation of tasks and questioning on underpinning knowledge.
Assessment should be conducted over time and may be in conjunction with assessment of other units of competency.

Context of Assessment

Assessment may occur on the job or in a workplace simulated facility with relevant process equipment, materials, work instructions and deadlines.

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.

Unit scope	This unit applies to the measurement and drawing of site layout related to the manufacture and installation of furniture, cabinets, glass, soft furnishings, upholstery, picture framing, and floor covering products
Drawing	Drawing may be manual or computer aided
Measurements	Measurements are to be in metric scale, cover all dimensions of the site and furnishings and involve the use of rulers, tape measures, squares and service detectors. They may involve laser or equivalent technology
Critical dimensions that may impact on manufacture and installation include:	• the square of the structure • angles floor to walls • walls to ceiling • vertical walls • horizontal floor and ceiling • service locations and critical structural criteria
Calculations to include:	• area • perimeter • volume • mass • scales and ratios (ingredients/elements and triangulation) and require the application of addition • subtraction • multiplication and division processes • Calculations are to be performed both manually and with the aid of a calculator
Unit context	• Workplace health and safety requirements may include OH&S legislation, building codes, material safety management systems, hazardous substances and dangerous goods

RANGE STATEMENT	
	codes and local safe operating procedures • Work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
Personal protection equipment	Personal protective equipment is to include that prescribed under legislation, regulation and enterprise policies and practices
Information and procedures	• Workplace procedures relating to the measuring and drawing of site layouts • Work instructions, including job sheets, plans, drawings and designs • Workplace procedures relating to reporting and communication • Manufacturers' specifications and operational procedures

Unit Sector(s)

Unit sector	Furniture Making
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Competency field

Competency field	
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Co-requisite units

Co-requisite units		