



Australian Government

MSFKB4013 Document residential building services

Release: 1

MSFKB4013 Document residential building services

Modification History

Release 1. Supersedes and is equivalent to MSFKB4003 Identify and document services required to support fitted furniture designs.

Application

This unit describes the skills and knowledge required to identify and document existing services, examine the implications for new interior space design and develop layout documentation showing details of proposed new service locations. It does not include layout of service pipes, wiring, conduits or installation of services.

This unit applies to interior designers, including kitchen and bathroom designers who use discretion, judgement and problem solving in the determination of service requirements.

Licensing, legislative or certification requirements may apply to this unit and relevant state/territory and local government agencies should be consulted to determine any necessary certification or licensing for undertaking kitchen and bathroom work. Access to construction sites requires certification of general induction training specified by the National Code of Practice for Induction for Construction Work (ASCC 2007).

Pre-requisite Unit

N/A

Unit Sector

Kitchens and Bathrooms

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Identify and document available services	1.1 Arrange access to work area with client in accordance with project requirements 1.2 Identify and follow on-site work health and safety procedures 1.3 Locate and accurately document existing services on site diagrams or plans using correct industry symbols and protocols 1.4 Identify type and capacity of services and accurately document using correct industry symbols and protocols

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Take accurate site measurements to inform layout documentation
2. Examine implications of services on design	2.1 Determine intentions or options for services from design brief, drawings and plans 2.2 Assess details obtained from site against design requirements 2.3 Identify appliances in the design brief and examine implications on services 2.4 Identify compliance issues relating to the location of services 2.5 Determine implications of current services on design
3. Determine new service system layout	3.1 Determine details of potential new service layout requirements from the design brief 3.2 Assess required and desirable performance characteristics and sustainability of service products 3.3 Assess ergonomic, anthropometric and proxemic principles in respect of the intended products 3.4 Obtain costing details and confirm suitability against the design brief 3.5 Identify the need for specialist contractor advice about design implications and organise in accordance with the scope of work 3.6 Confirm and agree service system layouts that meet design brief requirements with client
4. Complete digital layout documentation	4.1 Create detailed digital service layout documentation showing location of all required services using correct industry symbols and protocols 4.2 Accurately document associated product specifications in accordance with industry standards

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to MSFKB4003 Identify and document services required to support fitted furniture designs.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MSFKB4013 Document residential building services

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- conducted a site survey and documented services information for 3 different sites
- developed digital service layout documentation that complies with industry standards and protocols for 3 different designs (to include 1 renovation and 1 new build), which individually or cumulatively include documentation of the following services:
 - electrical:
 - power points
 - data outlets
 - lighting
 - gas
 - plumbing:
 - water outlets
 - drainage features.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- state or territory work health and safety legislation, regulations, standards and codes of practice
- purpose and key provisions of Australian Standard AS1100 and its impact on documentation requirements
- statutory planning regulations affecting services in interior spaces, including kitchens and bathrooms
- mathematical procedures for estimation and measurement
- basic building and architectural terminology
- basic features of the following building services and their layout:
 - electricity – outlets, controls, switches
 - lighting
 - plumbing
 - gas
 - air-conditioning and/or ventilation

- sketching and drawing techniques
- industry symbols and protocols for the documentation of building services
- cost implications of existing services on design – relocation, capacity, fixtures and fittings
- local planning processes
- sustainability considerations for service layouts
- sources of information on cabinetry products
- different products, their characteristics, performance and service requirement:
 - appliances
 - lighting
- formats and required inclusions for design specifications.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - sites to be assessed
 - measuring equipment
 - information technology hardware
 - CAD software.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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