

PUAFIR506B Conduct an assessment of a building's performance based design

Release 3



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Modification History

Release	TP Version	Comments
2	PUA12 V2	Application of the Unit added Unit revised to reflect current work requirements Method of assessment added
1	PUA00 V8.1	Primary release on TGA

Unit Descriptor

This unit covers the competency required to assess a building's fire safety systems as determined against performance based design in accordance with organisational requirements. Legislative, regulatory and certification requirements are applicable to this unit.

Application of the Unit

This unit applies to personnel authorised by their agency to undertake assessments of buildings to determine whether their fire safety systems comply with performance based regulatory requirements for the class of building and occupancy.

These personnel will be required to provide reports on non-compliance to the organisation or owner of the business and to the fire service.

Licensing/Regulatory Information

Not applicable.

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Pre-Requisites

PUAFIR403B Assess building plans PUAFIR507B Inspect building fire safety systems

Employability Skills Information

This unit contains employability skills.

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 Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

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Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

- of fire safety systems and check for compliance
- 1. Undertake an assessment 1.1 All components of the building's *fire safety systems* are identified in accordance with the fire engineering design brief, performance based design, building plans and associated documentation.
 - 1.2 All components of the fire safety systems and their elements are compared with appropriate standards, regulations and codes in accordance with organisational requirements.
 - 1.3 Fire safety system *performance and maintenance* requirements are compared with appropriate standards, regulations and codes in accordance with organisational requirements.
 - 1.4 Fire agency intervention model is applied.
- of the fire safety systems to the appropriate authorities
- **2. Report on the assessment** 2.1 Results of the assessment of the fire safety systems' performance are reported in accordance with organisational requirements.
 - 2.2 Fire safety problems and issues relating to fire safety systems are identified and reported in accordance with organisational requirements
 - 2.3 Report is distributed in accordance with organisational requirements.

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Required Skills and Knowledge

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

Required Skills

- compile and prepare reports
- interpret building plans
- locate and identify components of a building's fire safety system
- present information
- use information technology systems

Required Knowledge

- · design documentation and reporting
- equipment manufacturer specifications
- fire agency intervention
- · fire detection and suppression
- fire engineering design brief
- fire initiation and development
- fire spread and management
- levels of analysis (as described in the Fire Engineering Guidelines)
- maintenance procedures
- occupant avoidance
- organisational procedures
- performance based building and fire codes
- principles of modelling
- · relevant legislation
- smoke development and management
- special risk factors found in hospitals and public buildings, high rise structures, airports, petrochemical plants, electrical installations

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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 this Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit Assessment must confirm the ability to:

- identify components of the building's fire safety systems
- identify proposed fire engineering design brief and performance specifications for fire safety systems
- identify proposed performance based design impacts
- conduct an assessment of a performance based design
- compile reports
- use appropriate intervention model

Consistency in performance

Competency should be demonstrated over time and in a range of contexts.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed on-the-job or in a simulated workplace environment.

Specific resources for assessment

Access is required to:

building plans and associated documentation

Method of assessment

In a public safety environment assessment is usually conducted via direct observation in a training environment or in the workplace via subject matter supervision and/or mentoring, which is typically recorded in a competency workbook.

Assessment is completed using appropriately qualified assessors who select the most appropriate method of assessment.

Assessment may occur in an operational environment or in an agency-approved simulated work environment. Forms of assessment that are typically used include:

- direct observation
- interviewing the candidate
- journals and workplace documentation
- third party reports from supervisors
- written or oral questions

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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.

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Fire safety systems must	• fire hydrants
include:	fire sprinkler
and may also include:	building design requirements
	emergency vehicle access—egress system
	emergency warning intercommunication system (EWIS)
	• communications
	fire detection and alarm
	fire/emergency control centres/rooms
	• fire resisting structures/compartmentation
	fire suppression
	smoke hazard management
Performance based design	• compartmentation
may include:	distance of travel for egress
	evacuation arrangements
	fire agency capabilities
	fire agency intervention
	fire suppression systems
	organisational procedures
	smoke hazard management arrangements
Performance and	Australian Standards
maintenance requirements	Building Code of Australia
must include:	building regulations
	manufacturer specifications
	organisational procedures

Unit Sector(s)

Not applicable.

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