



Australian Government

**PUAFIR516 Assess and evaluate a facility's
fire and incident safety management
systems**

Release: 1

PUAFIR516 Assess and evaluate a facility's fire and incident safety management systems

Modification History

Release 1. This is the first release of this unit of competency in the PUA Public Safety Training Package.

Application

This unit of competency involves the skills and knowledge required to assess and evaluate a facility's fire and incident safety management systems for dangerous goods and/or hazardous chemicals. It is applicable to personnel authorised by their organisation to undertake an assessment of a facility where dangerous goods and hazardous substances are stored.

The fire sector is those sections of government departments, statutory authorities or organisations that have responsibility under jurisdictional arrangements for the delivery of firefighting and fire management services.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

It is essential that the prerequisite units listed below are obtained prior to the issuance of this unit to individuals within the fire sector or the units contributing to the attainment of a fire qualification.

PUAFIR404 Inspect dangerous goods facilities

Competency Field

Fire

Unit Sector

Fire

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1 Assess hazards of materials on site**
 - 1.1 Emergency response plans, tactical fire plans and other documentation are accessed and reviewed
 - 1.2 Identification of hazards of onsite materials is carried out
 - 1.3 Facility risk factors are determined
 - 1.4 Potential incidents are determined
 - 1.5 Factors which may contribute to loss of containment, control of, or fire involving hazardous materials are assessed
 - 1.6 Information about hazardous materials is accessed using a range of sources

- 2 Identify, determine and assess consequences of release of onsite materials (non-fire scenario)**
 - 2.1 Range of dangerous goods onsite are identified and assessed, in accordance with organisational procedures
 - 2.2 Consequences of dangerous goods releases are identified and assessed, in accordance with organisational procedures
 - 2.3 Impact on immediate area, personnel, property and the environment is identified, in accordance with organisational procedures
 - 2.4 Resources available to combat the release of onsite materials are identified and assessed

- 3 Determine and assess consequences of the fire scenario (fire, chemical and gas release) involving hazardous materials**
 - 3.1 Range of fire scenarios involving hazardous materials, including gas and chemical is identified, in accordance with organisational procedures
 - 3.2 Consequences of each fire scenario involving hazardous materials are identified and assessed, in accordance with organisational procedures
 - 3.3 Impact on immediate area, personnel, property and environment of a hazardous materials fire is identified, in accordance with organisational procedures
 - 3.4 Resources available to combat the release of onsite materials are identified and assessed

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| 4 Assess fire and incident and safety management systems and their performance | 4.1 | Fire, incident and safety management systems including prevention, preparedness, response and recovery are identified |
| | 4.2 | Operation and performance of fire, incident and safety management systems is assessed, in accordance with performance based criteria |
| | 4.3 | Fire, incident and safety management system design assumptions and fire organisational operations are assessed |
| | 4.4 | Recovery strategies are identified and assessed, in accordance with organisational procedures |
| 5 Report and recommend action | 5.1 | Proposed or existing fire, incident and safety management systems are documented |
| | 5.2 | Evaluation of fire, incident and safety management systems is recorded |
| | 5.3 | Recommendations and proposed upgrades to fire, incident and safety management systems are reported, documented and forwarded, in accordance with organisational procedures |

Foundation Skills

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

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

- information about hazardous materials must be sourced from one or more of the following
- ADR hazardous identification system
 - electronic databases
 - emergency procedures guides
 - Global Harmonised System (GHS)
 - HAZCHEM emergency action code
 - HAZMAT action guides
 - safety data sheets

scenarios must include at least two or more of the following

- boiling liquid expanding vapour explosion
- bund, flash and jet fires
- leak into banded or unbanded areas
- pool fires
- structural failure of storage vessels on part of manufacturing plant
- structure fire
- toxic vapour clouds
- vapour cloud explosion
- vehicle fires

fire and incident and safety management systems must include

- alternative fire suppression system
- bunding
- explosion relief devices
- fire and flame detection and alarm system
- fire hydrant and hydrant booster system
- fire indicator panels, occupant warning and communications systems
- fire main system
- fire sprinkler and sprinkler booster system
- gas and vapour detection and alarm system
- passive fire protection
- smoke and ventilation control system
- static water and pump sets
- systems for evacuation

and must include one or more of the following

- Australian and New Zealand Standards and codes of practice
- facility emergency procedures
- facility fire and incident response teams' material handling system
- facility's mutual aid agreements
- facility's work practices

Unit Mapping Information

This unit replaces and is equivalent to PUAFIR514 Assess and evaluate a facility's fire and incident safety management systems and PUAFIR508B Assess and evaluate a facility's fire/incident safety management systems in hazardous materials.

Links

PUA Training Package Companion Volume Implementation Guide is found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=3eca5672-6d5a-410b-8942-810d0ba05bbf>