



Australian Government

Department of Education, Employment and Workplace Relations

PUAFIR404A Inspect dangerous goods facilities

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the competency to inspect dangerous goods facilities and identify areas of non-compliance.

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Application of the Unit

Not applicable.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

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Element	Performance Criteria
1 Identify presence of dangerous goods and/or hazardous substances	1.1 Dangerous goods and/or hazardous substances are identified in accordance with the organisation's procedures 1.2 Dangerous goods and hazardous substances labelling and documentation is located and interpreted 1.3 Information about dangerous goods and/or hazardous substances is sought from authorised personnel and relevant authorities
2 Establish location and quantity of dangerous goods and/or hazardous substances	2.1 Location of dangerous goods and/or hazardous substances is identified 2.2 Licensed quantity of dangerous goods and/or hazardous substances stored or handled in the different locations is determined 2.3 Type of bulk or package storage is identified 2.4 Use of storage, process or transport of dangerous goods and/or hazardous substances is identified 2.5 Number of different classes of dangerous goods located in one area is identified 2.6 Site manifests are located and examined
3 Identify product information	3.1 Material Safety Data Sheets are located and interpreted 3.2 Product safety information is located and interpreted 3.3 Additional information such as manifests, HAZCHEM signage, safety signs, is located and interpreted where applicable
4 Identify and locate the fire safety systems in the facility's plan and associated documentation	4.1 Type of facility is identified 4.2 Fire safety systems and components are correctly identified on the facility plans and associated documentation

- 4.3 Using the facility plans and associated documentation, the fire safety systems are located in the facility
 - 4.4 Variations between the plans and the actual locations are recorded
- 5 Verify the actual fire safety systems with the facility plan and associated documentation
 - 5.1 Compare facility plans and associated documentation with the actual location of the facility's fire systems
 - 5.2 Variations between the facility's plans and associated documentation and actual locations are recorded
- 6 Assess the operation and maintenance of the fire safety systems
 - 6.1 Installed automatic fire alarms systems are checked against stated facility requirements
 - 6.2 Method of operation of the facility's evacuation system is checked using AS2220 requirements as a guide
 - 6.3 The facility's emergency organisation is checked using AS3745 requirements as a guide
 - 6.4 Maintenance procedures and logbook for automatic fire alarm systems are checked against AS1851 requirements as a guide
 - 6.5 Maintenance procedures and logbooks are checked against design requirements as a guide
 - 6.6 Other maintenance requirements for fire safety systems are identified and examined against the stated standard for the particular system
 - 6.7 Fire safety systems are tested in conjunction with a facility representative and recorded and reported in accordance with the organisation's procedures
 - 6.8 Variations to design requirements are noted and reported
- 7 Record and report information
 - 7.1 Information relating to dangerous goods and/or hazardous substances located in the facility is documented in accordance with the organisation's procedures
 - 7.2 Issues identified are documented in accordance

with the organisation's procedures

- 7.3 Variations to the facility's plans and associated documentation are described
- 7.4 Information on the facility's fire safety system's operation and maintenance is provided
- 7.5 Collated information and issues identified are reported to the supervisor or relevant authorities in accordance with the organisation's procedures

Required Skills and Knowledge

Not applicable.

Evidence Guide

Critical aspects of evidence

It is essential for this unit that competence be demonstrated in:

- comparing stated fire safety systems with actual fire safety systems
- identification of dangerous goods and hazardous substances
- report on inspection and highlighting variations
- determining maintenance requirements of fire safety systems and correct maintenance practices
- identification and certification of fire safety systems
- assessment of the operation

Interdependent assessment of units

Pre-requisite units:

PUAFIR403A Assess building plans

Co-requisite units:

Nil

Underpinning knowledge

- difference between packaging and storage of dangerous goods
- information systems to identify dangerous goods/hazardous substances
- dangerous goods and hazardous substances
- forms of identification
- procedures involved in responding to a hazardous materials incident
- containing and removing hazardous materials
- special hazards

Underpinning skills

- interpret regulations, codes and standards
- inspect using the above documentation as a reference
- produce reports
- interpret facility plans and associated documentation (logbooks) and specifications

Resource implications

Appropriate regulations, codes and standards and access to a suitable facility.

Consistency of performance

Evidence should be gathered over a period of time in a range of actual or simulated workplace environments.

Context of assessment

Evidence of competence may be demonstrated on the job or in a simulated workplace environment.

Verbal or written assessment of knowledge components may be used as supporting evidence.

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Interdependent assessment of units

Pre-requisite units:

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information systems to identify dangerous goods/hazardous substances

dangerous goods and hazardous substances

forms of identification

procedures involved in responding to a hazardous materials incident

containing and removing hazardous materials

special hazards

Underpinning skills

interpret regulations, codes and standards

inspect using the above documentation as a reference

produce reports

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Range Statement

Hazardous materials must include

Any material which, without adequate safeguards, may contaminate the environment, and/or threaten life or property. It includes all dangerous goods, hazardous substances, scheduled poisons, environmental pollutants and prescribed listed wastes.

Hazmat identification information must include

United Nations numbers
proper shipping names
product names or trade names
chemical names and chemical abstract service numbers
dangerous goods class labels
packing groups
emergency information panels
placarding
storage manifests
transportation documents
chemical abstract service number

Installed fire safety system must include

fire main system
static water and pump sets
fire sprinkler system
cooling water system
fire/flame detection and alarm system
gas/vapour detection and alarm systems
communication system
evacuation system
fire suppression system
smoke/ventilation control system
passive fire protection
explosion relief devices
Bunding

Operation of these systems may include compliance with

Australian Standards
Australian Worksafe Standards and Codes
NFPA Standard
British/European Union Standard
industry association specification
manufacturer's specification
system designer specification
company/owner requirements
NSW Planning Guidelines Advisory Paper No.2 (Fire Safety Study)
Factory Mutual Systems - Loss Prevention Data

Information about hazardous materials must be accessed from

Emergency Response Guide Books
the HAZCHEM Code
the NFPA Code
European Marking ADR Hazard Identification Numbers

emergency procedure guides

electronic databases

HAZMAT Action Guides

material safety data sheets

and may also include

safe storage and handling information cards

technical advice

Worksafe list of hazardous substances

Consequences of a release must include

vapour cloud formation and tracking

ground water/watercourse contamination

fauna/flora impact

soil contaminants

effects on people

effects on property

atmosphere

Consequences of a fire must include

heat flux contours

explosive over pressure

toxic smoke/water/air concentration

direct flame impingement

direct impact from debris

potential for propagation/knock-on effect

secondary incidents

effects on people

effects on property

Scenarios must include

leaks into bunded/unbundled areas

structural failure of storage vessel on part of manufacturing plant

percussive unconfined vapour cloud explosion

vapour cloud explosion

boiling liquid expanding vapour explosion

bund fires

jet fires

pool fires

flash fires

toxic vapour clouds

vehicle fires

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jet fires
pool fires
flash fires
toxic vapour clouds
vehicle fires

Unit Sector(s)

Not applicable.