



Australian Government

Department of Education, Employment and Workplace Relations

PUAFIR306B Render hazardous materials incidents safe

Release: 1

PUAFIR306B Render hazardous materials incidents safe

Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit covers the competency required to safely combat incidents involving hazardous materials.

'Hazardous Materials' is a generic term used to refer to an incident involving dangerous goods and hazardous substances.

Application of the Unit

Application of the Unit

The application of this unit in the workplace - the environments, complexities and situations involved - will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

This text will be useful for the purposes of job descriptions, recruitment advice or job analysis; where possible, it will not be too job specific to allow other industries to import it into other Training Packages, where feasible.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite Unit/s

PUAFIR201B Prevent injury

Employability Skills Information

Employability Skills

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 Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Identify and handle hazardous materials	1.1 Pre-incident plans, site control and containment plan and directives from supervisor are identified and implemented 1.2 Personal protective clothing and equipment appropriate to the types of hazards reported, are selected and worn 1.3 The incident is approached using care and caution and a safe distance is maintained in accordance with the organisation's procedures and/or advice from appropriate authorities 1.4 Dangerous goods and hazardous substances are identified from a safe distance and information conveyed to the supervisor in accordance with the organisation's procedures 1.5 Information on hazards and handling procedures for the identified substance is obtained in accordance with the organisation's procedures 1.6 Suitability of personal protective clothing and equipment is re-assessed in accordance with information received 1.7 Dangerous goods and hazardous substances are handled according to the organisation's procedures 1.8 Assistance is provided in obtaining samples according to procedures and/or advice from other authorities
2. Assist with establishing hazard control and decontamination zones	2.1 Individual's responsibilities within the organisation's control plan are identified and followed 2.2 The scene is secured and hazard control and decontamination zones are established according to the organisation's procedures 2.3 Evacuation procedures are implemented, if directed, to protect life in accordance with the organisation's procedures 2.4 Assistance is provided to control personnel and equipment entering and leaving hazard control and decontamination zones in accordance with the organisation's procedures 2.5 Records are kept of personnel and equipment as they enter and leave hazard control and

ELEMENT**PERFORMANCE CRITERIA****3. Contain and recover hazardous materials**

decontamination zones

- 3.1 Appropriate containment strategies and resources are identified and implemented
- 3.2 Hazardous materials are diluted and/or contained in accordance with procedures and/or advice from appropriate authorities
- 3.3 Hazardous materials are recovered from the incident site according to guidelines and procedures from the appropriate authorities

4. Assist with decontaminating personnel and equipment

- 4.1 Personnel and equipment are decontaminated immediately following contamination, or possible contamination in accordance with the organisation's procedures and Occupational Health and Safety guidelines
- 4.2 Operations are completed, equipment collected, decontaminated and cleaned where appropriate and serviced in accordance with the organisation's procedures
- 4.3 Contamination incidents are recorded and reported to the appropriate personnel in accordance with the organisation's procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required Skills

follow instructions and procedures
use relevant equipment
record information
work as member of a team
hazard assessments
appropriate control techniques
breathing apparatus procedures

Required Knowledge

organisation policies and procedures
legislation relevant to the organisation
roles and responsibilities of agencies involved
types of hazards and safe handling techniques
methods of identifying hazardous materials
principles of incident control
decontamination principles and procedures
containment techniques
breathing apparatus procedures
the nature and properties of hazardous materials

Evidence Guide

EVIDENCE GUIDE

EVIDENCE GUIDE

Critical aspects for assessment and evidence required to demonstrate competency in this unit

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

- hazardous materials identification
- implementing appropriate standard operating procedures
- compliance with relevant legislation
- demonstration of safe working practices
- assisting in the establishment of incident control
- containing and recovering hazardous materials
- undertaking decontamination procedures

Consistency in performance

Evidence will need to be gathered over a period of time across a range of variables appropriate to organisation roles

Context of and specific resources for assessment

Context of assessment

Simulations or exercises and/or a series of tasks are required to demonstrate competence in this unit. This may involve setting scenarios to be completed either individually or as a member of a team. Written or verbal questions should be used to support gathering of evidence

Specific resources for assessment

Assessment of this competency will require access to relevant transport, communication and Hazmat equipment

Guidance information for assessment

Information that will assist or guide assessment will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

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 in the Performance Criteria is detailed below.

Identification of hazardous materials must include	Hazmat information 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 transport documents visual signs and chemical indicators colour coding (eg. gas cylinders)
Hazardous materials information sources must include	HAZCHEM Emergency Action Codes emergency procedures guides material safety data sheets technical specialist
and may also include	emergency response guide books National Fire Protection Association Codes European Marking ADR hazard identification numbers electronic databases HAZMAT Action Guides safe storage and information handling
Control zones must include	area of likely contamination (hot zone) area of operations (warm zone) support zone (cold zone)
Procedures must include	organisation procedures

RANGE STATEMENT**and may also include**

OH&S practices and procedures
government organisational procedures
company or organisational procedures
emergency management
evacuation
environmental
gas plume modelling

**Equipment for containment
and recovery may include**

Hazbins - hazardous materials recovery bins
sealable drums
original containers
shipping containers
absorbent materials
protective clothing and equipment
plugs and patches
booms
pipes
extraction equipment and machinery
hand implements
earth moving equipment
spraying equipment
pumps
non-sparking tools
intrinsically safe tools

**Neutralising and diluting
agents may include**

water
acids and bases
bicarbonate of soda
lime

**Decontamination must
include**

wet decontamination techniques
combination of wet and dry
dry decontamination techniques
decontamination techniques

RANGE STATEMENT

	emergency decontamination
Decontamination areas must include	holding area wash area disrobing and rest area
Sampling may include	gaseous samples liquid samples solid samples
Analysis may include	sampling equipment external organisation assistance
Organisations that assist operations may include	police ambulance local government chemical companies emergency services government departments

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s	PUAFIR308B Employ personal protection at a hazardous material incident
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