



Australian Government

Department of Education, Employment and Workplace Relations

PUASAR005B Undertake confined space rescue

Release: 1

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Modification History

Not applicable.

Unit Descriptor

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This unit covers the competency to undertake rescue in confined spaces as defined in AS2865 as a member of a single agency or multi-disciplinary team.

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

PUASAR001B Participate in a rescue operation

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. Prepare for confined space rescue operation	1.1 Operation and task information is obtained and analysed 1.2 <i>Rescue equipment</i> is selected based on incident information and cross-checked to ensure it is ready for use 1.3 <i>Personal protective equipment</i> is selected relevant to the nature of the confined space rescue operation
2. Assess and manage confined space/trench rescue	2.1 Physical features of confined space rescue scene are assessed before deploying rescue resources 2.2 Rescue is managed to control access and maintain a safe and effective operational environment 2.3 <i>Hazards</i> are assessed, minimised and controlled 2.4 Communication with other <i>personnel</i> on site is established and maintained
3. Determine location and condition of casualties	3.1 Assessment is undertaken of incident scene to determine possible location of casualties 3.2 Appropriate equipment is used to assist in the location of casualties 3.3 Evidence of location within <i>confined space</i> is collected and reported 3.4 The condition of casualties and nature of entrapment is ascertained where possible 3.5 Hygiene procedures are applied in accordance with the organisation's procedures
4. Gain entry to confined space	4.1 Entry permit is located and relevant information obtained if available 4.2 Atmosphere is monitored in accordance with AS2865 4.3 Appropriate ventilation procedures are implemented, where required 4.4 Appropriate respiratory protection is used in irrespirable atmospheres, where required 4.5 Techniques and equipment are employed to access the casualty 4.6 Located casualties are treated in consultation with medical personnel and in accordance with organisational policies
5. Remove casualties	5.1 Casualties are removed in accordance with

ELEMENT	PERFORMANCE CRITERIA
6. Conclude rescue operations	<p>organisation's procedures</p> <p>5.2 Appropriate actions are taken to <i>preserve the incident scene</i>, where possible</p> <p>6.1 Equipment is recovered, cleaned and serviced according to organisational standards and manufacturer's guidelines</p> <p>6.2 Signs and symptoms of operational stress are recognised and promptly reported</p> <p>6.3 <i>Operational documentation</i> is completed to organisational standards</p>

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required Skills

- lowering and hauling systems
- operation of atmospheric monitoring equipment
- operation of isolation systems
- operation of lifting
- operation of self contained breathing apparatus and airline equipment
- operation of ventilation equipment

Required Knowledge

- disaster victim identification procedures
- lock, tagout and isolation procedures
- potential occupational hazards and control measures
- procedures for atmospheric monitoring
- working knowledge of content of AS2865
- AS1715

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 extrication of casualty, minimising further injury to self and others

Consistency in performance

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

Context of and specific resources for assessment

Context of assessment

Evidence of competent performance should be obtained by observing an individual in an actual or simulated rescue context

Specific resources for assessment

Assessment of this competency requires access to an appropriate training location/venue; and organisation's resource equipment and personnel for team based activities

Resource requirements must meet AS2865

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.

Confined space is defined as

Per AS2865 definition:

Confined space - an enclosed or partially enclosed space which is at atmospheric pressure during occupancy; is not intended or designed primarily as a place of work; may have restricted means for entry and exit; and may have an atmosphere which contains potentially harmful levels of contaminant; not have a safe oxygen level; or cause engulfment

Confined spaces may include but are not limited to

Storage tanks

- tank cars
- process vessels
- boilers
- silos

and other tank-like compartments usually having only a man-hole for entry

Open topped spaces such as pits or degreasers

Pipes

- sewers
- tunnels
- shafts and ducts and similar structures

Any shipboard spaces entered through a small hatchway or access point

- cargo tanks
- cellular double bottom tanks
- duct keels
- ballast and oil tanks
- and void spaces but not including dry cargo holds

Natural features such as caves and pits

Rescue equipment may include

life rescue line

ropes/tapes

tripods/edge management

harnesses

RANGE STATEMENT

	litters/stretchers
	hauling systems
	communications
	self-contained breathing apparatus/airline
	airline equipment
	atmospheric monitoring equipment
	escape sets and harnesses
	isolation equipment
	ventilation equipment
Situational or environmental hazards may include	dangerous goods or hazardous substance
	moving machinery either electrical or mechanical
	heat exhaustion or hypothermia
	oxygen enrichment
	oxygen deficiency
	atmospheric contaminants (such as hydrogen sulphide methane and carbon dioxide)
	swift water
	sewers and stormwater canals
	falls from heights or into depths
Personal protective equipment may include	gloves
	helmets
	safety glasses
	hearing protection aids
	chemical splash suit/fully encapsulated gas-tight suits
	atmospheric monitoring equipment
	self-contained breathing apparatus
	airlines
Recognised removal techniques may include	lifting
	lowering
	hauling
	mechanical advantage systems

RANGE STATEMENT**Operational documentation may include**

entry permits
 tally boards
 entry control procedures
 air monitoring procedures
 equipment and rope logs
 plan
 exposure records

Personnel may include

agency support
 on-site staff
 emergency services workers
 local/state/territory government authorities

Scene preservation may include

preservation of evidence and related legal requirements

Evidence collected may include

entry permit
 permit to work
 information received from bystanders
 witnesses and emergency services personnel

Unit Sector(s)

Not applicable.

Corequisite Unit/s**Co-requisite Unit/s**

PUAFIR307B Monitor hazardous atmospheres (Fire specific)