

Australian Government

Department of Education, Employment and Workplace Relations

PUASAR026A Undertake industrial and domestic rescue

Revision Number: 1



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Modification History

Not applicable.

Unit Descriptor

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This unit covers the competency required to gain access to and extricate entrapped casualty/s from a range of industrial and/or domestic incidents while minimising the potential for further injury and preserving the integrity of evidence.

An industrial rescue involves the safe removal of persons who have had an accident in the workplace such as factories, warehouses and building sites. It involves disentanglement from machinery, and extrication from heavy machinery such as cranes. Rescue of occupants trapped in elevators and escalators is also included.

Domestic rescue involves the rescue of occupants trapped in household settings. This includes such things as children with fingers in drain plugs, removal of rings, and persons who are physically incapable of removing themselves from their houses due to ill health.

This unit requires the responder to access entrapped casualties using a range of techniques and to operate specialist equipment to undertake the rescue.

Application of the Unit

Application of the Unit	This unit typically applies to a member of a rescue team.
	This unit may be customised to suit a range of industrial and/or domestic incidents based on an organisational risk profile.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Pre-requisite Unit/s

Employability Skills Information

Employability Skills This unit contains employability skills.

Nil

Elements and Performance Criteria Pre-Content

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Elements describe the essential outcomes of a Unit of Competency.	nt of the element. further information is l Knowledge and/or of performance is to
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Elements and Performance Criteria

ELEMENT

1. Prepare for industrial/domestic rescue

- 1.1 *Operation and task information* is obtained and assessed upon call out to *domestic or* industrial *rescue incident*
- 1.2 Based on incident information, appropriate *rescue resources* are identified, selected, received and checked to ensure they are ready for use
- 1.3 *Personal protective equipment (PPE) and clothing* are selected based on type of industrial or domestic equipment involved
- 1.4 *Systematic approach* to identifying *potential hazards and associated risks* is undertaken en route and on approach to the incident

ELEMENT

2. Establish and maintain rescue scene safety

- 2.1 *Communication* and ongoing liaison with heavy vehicle rescue team members on site is established
- 2.2 Liaison with *other relevant personnel* is established and maintained
- 2.3 *Rescue scene reconnaissance* and size up is conducted
- 2.4 *Situational* and *environmental hazards* are identified, analysed, evaluated and *treated*, marked and monitored
- 2.5 Rescue team is positioned taking into account *potential dangers*, requirements for personnel and vehicles to *access the scene*, and *limitations of operating equipment*
- 2.6 Safe work area is established to protect casualties, emergency services personnel and members of the public
- 2.7 Preventative action is taken to minimise the risk of fire or other potential hazards, where required
- 2.8 Impact effects on occupancy areas and potential effects on casualties are assessed
- 2.9 Techniques and equipment are employed to *stabilise the occupancy area* and to make the incident site safe
- 2.10 Scene lighting is established to reduce hazards associated with the type of incident
- 2.11 Specialist rescue resources are accessed based on an assessment of the incident

ELEMENT

3. Manage casualties

- 3.1 *Hygiene precautions* are implemented in accordance with organisational requirements
- 3.2 Techniques and equipment are used to *gain access to entrapped casualties* within the occupancy area/s
- 3.3 *Primary survey* of casualty is undertaken to determine injury type and severity
- 3.4 Injuries are confirmed that may complicate removal of casualty from the occupancy area and appropriate action is taken
- 3.5 In the event of multiple casualties, triage assessment is undertaken to determine priorities for medical treatment and for extrication
- 3.6 Need for additional personnel and/or specialist equipment is requested
- 3.7 Support is provided to medical personnel assisting with the treatment of the entrapped person/s as required
- 4. Extricate casualty/s
- 4.1 Casualty/s are protected from injury during extrication
- 4.2 *Treatment of located casualty/s* is undertaken in consultation with medical personnel and in accordance with organisational policies
- 4.3 Access plans are determined with consultation team leader, medical staff and other technical specialists
- 4.4 Rescue techniques and equipment used by the rescue team take into account the features of the occupancy area including materials and design elements that may impact on the extrication
- 4.5 Casualty/s are *removed* using recognised techniques and equipment

ELEMENT

5. Carry out rescue operations

6. Conclude rescue operations

- 5.1 Liaison is undertaken with primary response team and other relevant personnel
- 5.2 Additional technical equipment is employed to make incident scene safe
- 5.3 Procedures are implemented to protect casualty/s from further injury or discomfort during access and removal
- 5.4 Access path is provided for the removal of casualty/s using appropriate rescue techniques and equipment
- 5.5 Scene is *preserved* for investigating officer/s
- 6.1 Equipment is *recovered*, *cleaned and serviced* according to manufacturers' guidelines and organisational standards
- 6.2 *Signs and symptoms of operational stress* in self and others are reported to relevant personnel
- 6.3 Operational *debrief* is attended and *documentation* is completed to organisational standards
- 6.4 *Exposure records* are completed

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required Skills

- communication
- conduct a primary survey
- decision making
- extricate casualties safely
- identify symptoms of physical/emotional stress
- solve problems
- use rescue equipment
- wear PPE and clothing in accordance with organisational requirements
- work within the organisation's command and control structure

Required Knowledge

- available equipment and equipment function
- emergency care
- hygiene procedures
- manufacturer's operational guidelines
- operate rescue equipment
- organisational policies and procedures (such as relevant legislation; operational, corporate and strategic plans; operational performance standards; operational policies and procedures; organisational personnel and occupational health and safety practices and guidelines; organisational quality standards; organisation's approach to environmental management and sustainability)
- primary survey procedures
- relevant legislation
- relevant occupational health and safety (OH&S) principles and practices
- rescue equipment
- safe work practices
- scene assessment procedures
- situational awareness
- symptoms of physical/emotional stress
- use of personal protective equipment

Evidence Guide

Not applicable.

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.

Operation and task information may include	Availability of company personnel to provide technical advice
	Environmental and other hazards
	Incident location
	Other public safety organisations at the scene or en route
	Time of day and traffic density
	Type of rescue and number of casualties
	Type of machinery or household item involved
Domestic or industrial rescue may include	Domestic rescue
	children with fingers in drain plugs
	removal of rings
	persons who are physically incapable of removing themselves from their houses due to ill health
	Industrial rescue
	agricultural machinery
	disentanglement from machinery located in factories, warehouses and building sites
	elevators/escalators
	industrial/construction incidents
	industrial machinery entrapments
	occupant/s trapped in elevators and escalators
Rescue resources may include	shipping containers
	Ancillary equipment such as stretchers
	Firefighting equipment
	Hand tools
	Hot cutting equipment
	Lifting and hauling equipment
	Lighting equipment

Pa	atient protection equipment
	1 1 1
R	escue units and stowed equipment
Т	ool boxes
· · · · · ·	Soots
equipment and clothing may E	ye protection
	lloves
Н	learing protection
Н	lelmet
K	Inee/elbow protection
	assessment i.e. call out and response, route, scene, aison, casualties
Pe	ositioning of vehicle i.e. dangers, access and casualties
	rocedures i.e. dangers, casualty protection, extrication, varning devices and lighting
Potential hazards and M	Ioving machinery
associated risks may include E	lectrocution
In	ndustrial traffic (forklifts etc.)
V	arious industrial work environments
v	adio communications (radio, telephones and nformation technology)
W	Varning signals
Other relevant personnel A	mbulance officers
may include	company personnel
E	mergency services personnel
Н	lousehold occupants
Pe	olice
U	Utility technicians
	collecting relevant information about casualty/s and azards
Is	solating and eliminating utilities
Si	urveying the incident scene

Situational and environmental hazards may include	Adverse weather
	Biological hazards such as body fluids and tissue
	Convergence
	Dangerous goods and hazardous substances
	Difficult terrain
	Dusts
	Electrical and mechanical moving machinery
	Electricity
	Equipment power/drive systems
	Gas
	Mobile property
	Sharp and jagged objects
	Slippery surfaces
	Vehicle fuel systems
	Water and sewerage utilities
Treating hazards may	Eliminating the hazard
include	Isolating the area/source
	Stabilising overhead hazards
	Using atmospheric monitoring equipment
	Using PPE and clothing
Potential dangers may include	Electrical hazards
	Fuel
	Stability and location of machinery
Accessing the scene may	• Allowing clear access and egress for other
include	responding vehicles and ambulances
	Establishing a clear area to manoeuvre personnel, stretchers
Limitations of operating	Access to incident site
equipment may include	• Equipment capacities and limitations
Impact effects on occupancy areas may include	Disconnection of essential services

Potential effects on casualty may include	Confinement without entrapment (elevators) Limb entrapment
Stabilising the occupancy area may include	Isolating utilities (power, gas, water etc.) Meshing gears on machinery
Hygiene precautions may include	 Avoiding contact with body fluids and tissue Decontaminating equipment at scene and placing protective clothing and gloves in a sealed bag for special dry cleaning Using correct personal protective clothing and equipment Using surgical gloves under protective work gloves Washing hands Wearing appropriate protective clothing
Gaining access to entrapped casualty/s may include	 Accessing elevator shaft Disassembling of machinery Managing moving machinery Managing utilities supplies Removing domestic plumbing equipment
Primary survey	 Is a methodical process used to quickly identify immediate life threatening injuries and conditions that require intervention Should be completed promptly upon initial patient contact if no immediate life threatening injuries and conditions requiring intervention are found during the survey Should be completed as soon as possible if it is interrupted
	 Should only be interrupted when: life threatening condition is identified and immediate life saving interventions are initiated
	• scene conditions require that the patient be moved immediately due to danger to first emergency care responders or the patient
Treating located casualty/s may include	First aid
Removing casualty/s may include	Rescue/spine boards Stretchers Team stretcher handling

Preserving the scene may include	Defining and redefining scene boundary
	Preserving evidence and related legal requirements
	Securing the scene
Recovering, cleaning and servicing of equipment may include	 Contaminated clothing and equipment cleaned or disposed Equipment inspected for damage and serviceability Inventories checked
Signs and symptoms of operational stress may include	Critical incident stress
	Dehydration
menuue	Fatigue
	Hypothermia
Debriefings may include	Critical incident stress debriefing
	Operational analysis
	Post-incident analysis
	Performance evaluations
Documentation may include	AIRS/coroner report
	Near miss injury report
	Notebooks completed
	Operational debrief
	Post operational analysis
Exposure records may include	 Reporting form that documents any exposure that may result in a short- or long-term associated injury such as: hazardous substances, such as dust, vapours, fumes,
	radiation and chemical substances
	heavy repetitive work over long periods of time
	lifting heavy loads
	noisepsycho-social hazards (e.g. critical incident stress)
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Unit Sector(s)

Not applicable.