



Australian Government

PUAFIR304 Respond to marine emergencies

Release: 1

PUAFIR304 Respond to marine emergencies

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 work as a member of a team under supervision when responding to marine emergencies. It applies to personnel required to respond to an incident involving a marine structure or vessel. The incident may involve fire and hazardous materials.

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.

PUAFIR207 Operate breathing apparatus open circuit

Competency Field

Fire

Unit Sector

Fire

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Proceed to marine

PERFORMANCE CRITERIA

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

1.1 Information about vessel, location and type of marine

emergency	emergency is received, in accordance with organisational procedures and requirements, with relevant stakeholders and support agencies or organisations immediately notified
	1.2 Personal protective clothing and equipment is donned in response to type of marine emergency
	1.3 Most effective route to marine emergency is identified
	1.4 Access to marine emergency is gained whilst protecting life and minimising damage to property and environment, in accordance with organisational procedures
2 Prepare extinguishing media and/or equipment for use	2.1 Water supplies at incident to support firefighting are located
	2.2 Resources and equipment to access and assist in marine emergency operations are identified and assembled
	2.3 Nominated extinguishing media or equipment is identified, obtained and accessed
	2.4 Equipment is used, in accordance with organisational procedures and manufacturers' specifications
3 Access marine structure or vessel	3.1 Hazards and special risks are identified, monitored and controlled, in accordance with organisational procedures
	3.2 Personal protective clothing and equipment selected is appropriate to hazards and special risks
	3.3 Breathing apparatus is checked and donned, in accordance with organisational procedures
	3.4 Breathing apparatus procedures are followed, in accordance with organisational procedures
	3.5 Access to marine emergency site is gained, in accordance with organisational procedures
	3.6 Nature and location of marine emergency is determined
4 Conduct search and rescue	4.1 Systematic primary and secondary searches are conducted
	4.2 All areas are searched and marked, in accordance with organisational procedures

- 4.3 Casualties are located, assisted and rescued, in accordance with organisational procedures
 - 4.4 Fatalities are located and protected, in accordance with organisational procedures and relevant legislation
 - 4.5 All persons are accounted for and information is communicated through the chain of command
- 5 Combat the emergency**
 - 5.1 Organisational firefighting objectives and strategies are received, confirmed and implemented under direction
 - 5.2 Firefighting tactics are selected, in accordance with the type of marine emergency and with actual or potential hazards identified
 - 5.3 Firefighting considerations are taken into account when implementing tactics
 - 5.4 Marine emergency is located and access is gained in the safest manner to minimise damage to property or risk of injury
 - 5.5 Incident potential is anticipated and action is taken to protect the safety of self and others
 - 5.6 Strategies and tactics are selected to minimise injury to persons, damage to property and impact on the environment
 - 5.7 Ongoing communication is maintained throughout the operation between firefighters and marine crew members using the chain of command
- 6 Observe and react to changing conditions**
 - 6.1 Changing conditions at the marine emergency site are observed and their effects on vessel behaviour are noted and reported, as required
 - 6.2 Tactics are adapted to meet changing conditions and vessel behaviour
 - 6.3 Safe paths of egress are identified and maintained at all times
- 7 Participate in ancillary operations**
 - 7.1 Ancillary operations are undertaken to complement marine emergency operations and to prevent further damage to the vessel and its contents
 - 7.2 Water runoff is monitored and conditions reported

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|------------------------------|------------|---|
| | 7.3 | Risk and/or damage to the environment is avoided or minimised during ancillary operations |
| | 7.4 | Marine emergency incident information is completed and recorded, in accordance with organisational procedures |
| 8 Conclude operations | 8.1 | All equipment is removed from the marine emergency incident site, after completion of activities |
| | 8.2 | Equipment is cleaned, reinstated and stowed, in accordance with organisational procedures |
| | 8.3 | Participate in debriefing sessions |

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.

support agencies must include

- organisations covered by existing emergency management arrangements such as
 - environmental agencies
 - police
 - volunteer coast guard

personal protective clothing and equipment must include

- breathing apparatus
- chemical protective clothing
- life jacket, including whistle and strobe light
- safety harness and lines
- turnout uniforms and gloves

resources must include six or more of the following

- access craft
- aircraft or helicopter
- bulk extinguishing agent
- communication equipment
- deep lift and volume
- extrication equipment
- hi-x foam equipment

	• international shore connection • positive pressure ventilation fan • pumps • ship fire control plans • ship manifest • thermal imaging equipment • water drill
firefighting strategies must include	• combination attack • defensive and offensive mode • direct and indirect attack • direction of attack • overhead
firefighting tactics must include	• boundary cooling • cooling fuels • diluting fuel • excluding oxygen • interrupting chemical chain reaction • removing fuels
ancillary operations must include participating in three or more of the following	• damming and/or draining water runoff • guarding against hazards • making up equipment • overhaul • salvage • securing area

Unit Mapping Information

This unit replaces and is equivalent to PUAFIR304B Respond to marine emergencies.

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>

Assessment Requirements for PUAFIR304 Respond to marine emergencies

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least one occasion and includes

- accessing resources
- accessing vessel
- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) organisational requirements
- combating marine emergency
- concluding operations including recording required information
- conducting marine emergency operations using safe work practices
- conducting search and rescue
- identifying hazards and special risks
- implementing firefighting objectives, strategies and tactics for marine events
- monitoring vessel stability
- observing and reacting to changing conditions on vessel
- operating firefighting equipment on vessels
- participating in ancillary operations
- preparing and applying extinguishing media and/or equipment for use
- proceeding to marine emergency
- wearing personal protective clothing and equipment
- working with vessel stability control techniques

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions and includes knowledge of

- hazards and special risks
- impact of changing conditions
- industry stakeholders and support organisations and agencies
- industry stakeholders including marine authorities and port operators and owners

- marine emergency pre-incident plans
- maritime emergencies and firefighting on a vessel
- objectives, strategies and tactics for firefighting marine events
- organisational documentation, policies and procedures
- personal protective clothing and equipment
- safety considerations including safe work practices
- vessels including firefighting systems, types and construction and stability
- Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) organisational requirements including risk mitigation

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in industry approved simulated workplace operational situations that reflect workplace conditions.

Resources for assessment must include access to

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, equipment, tools and personal protective clothing and equipment currently used in industry including
 - range of controlled or simulated marine emergencies
- applicable documentation including organisational procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

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