



Australian Government

PUASAR014 Operate and maintain a small powercraft and motor for rescue operations

Release: 1

PUASAR014 Operate and maintain a small powercraft and motor for rescue operations

Modification History

Release 1. This is the first release of this unit of competency in the Public Safety Training Package.

Application

This unit of competency involves the skills and knowledge required to maintain and operate a small power craft and motor and to direct a crew during rescue operations. It includes a range of open water rescue situations using small boats.

The unit is applicable for personnel from emergency services, volunteer organisations and/or organisations where surveillance and rescue operations in open water is required.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable

Competency Field

Search and Rescue

Unit Sector

Not applicable

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare powercraft and motor for operations

PERFORMANCE CRITERIA

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

- 1.1** Logbooks are reviewed for previous operational feedback and pre-use information is completed, in accordance with organisational procedures and requirements

- | | | |
|--|------------|--|
| | 1.2 | Prelaunch check of motor and fuel cell is completed and they are installed on powercraft, in accordance with organisational procedures and manufacturers' guidelines |
| | 1.3 | Crew person is overseen in prelaunch checking of powercraft and ancillary equipment |
| | 1.4 | Personal protective clothing and equipment is stowed, as appropriate, in accordance with organisational procedures |
| | 1.5 | Two-way radio equipment is prepared for operational communications, in accordance with organisational procedures |
| 2 Transport powercraft to launch site | 2.1 | Powercraft is transported to launch site with safe manual handling techniques used by crew and other support personnel |
| | 2.2 | Powercraft is unloaded and positioned at water's edge ready for operational activities, in accordance with organisational procedures |
| | 2.3 | Safety brief is completed with crew person and other team members, in accordance with organisational procedures |
| 3 Launch and operate powercraft through surf | 3.1 | Competence level of operator and crew person is reviewed in relation to surf conditions |
| | 3.2 | Powercraft is lifted and dragged to water with crew person |
| | 3.3 | Motor is started when appropriate and safe to do so |
| | 3.4 | Powercraft is boarded safely and a secure position is assumed |
| | 3.5 | Crew person is instructed to enter craft, when appropriate, in accordance with organisational procedures and surf conditions |
| | 3.6 | Instructions are communicated to crew person, as required |
| 4 Maintain safe working environment for self and crew | 4.1 | Powercraft is operated safely around bathing public, in accordance with organisational procedures and prevailing surf conditions |

- | | | |
|----------|--|---|
| | 4.2 | Safe distances from bathing public and hazards in the water are maintained, in accordance with organisational procedures |
| | 4.3 | Communication is maintained with shore and crew person |
| | 4.4 | Safe operational conditions of powercraft is maintained, in accordance with organisational procedures and prevailing surf conditions |
| | 4.5 | Emergency procedures are implemented, in accordance with organisational procedures |
| | 4.6 | Powercraft is safely manoeuvred without operational motor |
| 5 | Perform rescue and operational task | |
| | 5.1 | Requests for assistance or tasks from supervisor are acknowledged, in accordance with organisational procedures |
| | 5.2 | Rescue or task information is communicated to crew person |
| | 5.3 | Operational tasks are safely performed, in accordance with organisational procedures |
| | 5.4 | Crew person is directed to retrieve casualty or object using appropriate retrieval techniques, in accordance with organisational procedures |
| 6 | Return powercraft to shore safely | |
| | 6.1 | Safety and security of powercraft, operator, crew person and casualty or cargo for beaching is maintained |
| | 6.2 | Permission to return to shore is signalled, in accordance with organisational procedures |
| | 6.3 | Observation for hazards is maintained throughout rescue operation |
| | 6.4 | Powercraft is beached on shoreline with appropriate speed or direction |
| | 6.5 | Casualty or cargo is lifted from powercraft safely |
| | 6.6 | Safe position of craft is maintained, in accordance with organisational procedures and operational readiness |
| 7 | Recover and restore | |
| | 7.1 | Powercraft is transported to storage using safe manual |

powercraft

handling techniques

- 7.2** Post operational checks and maintenance of motor are performed, in accordance with organisational procedures and manufacturers' guidelines
- 7.3** Post operational checks are supervised with powercraft washed down and ancillary equipment stored by crew person
- 7.4** Powercraft and motor are stored, in accordance with organisational procedures and requirements
- 7.5** Crew person is debriefed and operational documentation is completed, in accordance with organisational procedures

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.

Unit Mapping Information

This unit replaces and is equivalent to PUASAR014A Operate and maintain a small powercraft and motor for rescue operations.

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 PUASAR014 Operate and maintain a small powercraft and motor for rescue operations

Modification History

Release 1. This is the first release of this qualification in the PUA – Public Safety Training Package.

Performance Evidence

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

- applying self-rescue techniques
- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements
- communicating with colleagues including using recognised signals
- completing operational logbooks and documentation
- conducting safety briefings and debriefing crew
- following policies and procedures
- handling boats safely including when coming alongside and towing
- handling casualty safely
- identifying and avoiding hazards
- implementing emergency procedures
- launching powercraft through surf
- leading a powercraft crew
- maintaining a safe working environment for self and crew person/s
- maintaining logbooks
- manoeuvring powercraft without operational motor
- obtaining operational feedback
- operating a powercraft during rescue operations in a range of surf conditions
- performing rescue and operational tasks
- preparing powercraft and motor for operations including pre-launch checking of motor, fuel cell and powercraft
- recovering and restoring powercraft including conducting post-operational checks
- returning powercraft to shore safely
- securing powercraft using knots and lashings
- transporting powercraft to launch site
- using radio communication
- utilising rescue and ancillary equipment
- wearing personal protective clothing and equipment

Knowledge Evidence

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

- emergency procedures including on board fire drills
- equipment characteristics and limitations
- manual handling methods
- motor faults and associated repairs including air in fuel cell and motor, loose components, loose ignition leads and restarting a motor after capsizing
- organisational documentation, policies and procedures including operating procedures, pre and post operational checks and maintenance of powercraft and motor
- personal protective clothing and equipment
- retrieval techniques
- role and duties of a powercraft crew person
- surf awareness and situation awareness including beach safety zones
- surf hazards and environmental threats
- surf survival and self-rescue techniques
- types of waves and their characteristic features including effects of wind, tide, swell and ocean floor on surf conditions and features and signs of rips, gutters, sweeps and currents
- Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) 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 must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

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.

Competency must be demonstrated and assessed by completing rescue boat operations, exercises or scenarios.

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
 - access is required to equipment used in rescue boat operations and open water

- range of challenging surf conditions relevant to area of operations
- applicable documentation including organisational procedures, industry standards, equipment specifications, regulations, codes of practice and operations manuals.

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>