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Assessment Requirements for MARF028 Follow procedures to minimise and fight fires on board a vessel

Release: 1

Assessment Requirements for MARF028 Follow procedures to minimise and fight fires on board a vessel

Modification History

Release 1. New unit of competency. Licensing/regulatory information has been incorporated in accordance with Regulatory requirements. Assessment Requirements have been strengthened in accordance with Regulatory requirements.

Performance Evidence

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

- applying extinguishing media to a fire, including:
  - water
  - dry chemical powder
- applying work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices
- communicating and working collaboratively as a member of a team in a firefighting operation
- correctly using vessel closure and shutdown systems
- conducting effective boundary cooling
- identifying fire hazards and risks
- using fire hose lines (jet spray to fog stream)
- using a fire blanket to extinguish a fire.

Knowledge Evidence

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

- chemistry of fire and its relationship to flash point, vapour density, auto ignition temperature and spontaneous combustion
- classes of fire applicable to Australian and New Zealand Standards, including:
  - A – Carbonaceous solids
  - B – Flammable liquids
  - C – Flammable gases
  - E – Electrically energised equipment
  - F – Cooking fats or oils
- detection and suppression systems, including fixed firefighting systems
- extinguishing media, and their use, including:

- extinguishing powders
- firefighting foams
- gaseous extinguishing agents
- water
- fire alarms and signals during on-board fire emergency
- firefighting tactics, techniques and procedures, including team dynamics
- fire hazards and risks, including:
  - cargo
  - clothing
  - cooking oils
  - cordage
  - electrical arcing
  - fuels and lubricants
  - furnishings
  - paints
  - poor housekeeping
  - poor work practices
  - smoking
  - spontaneous combustion
- hazards and threats to life or health during on-board firefighting operations
- international shore connections
- methods of heat transfer
- on-board fire emergency response organisation and procedures
- portable fire extinguishers – colour codes and suitability for class of fire
- principles underlying spread of fire on a vessel
- principles and methods of extinguishment of each class of fire
- fire pumps
- procedure for restoring equipment to operational condition, including:
  - cleaning
  - re-stowing
- types of fire detection, firefighting equipment and systems used on vessels, their features, principles of operation, procedures for their use and problems that can occur
- using a fire bucket
- ventilation procedures
- vessel construction as it relates to fire prevention or protection
- WHS/OHS requirements and safe work practices.

Assessment Conditions

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.

Practical assessment must occur in a workplace, or realistic simulated workplace, under the normal range of workplace conditions. Simulations and scenarios may be used where situations cannot be provided in the workplace or may occur only rarely, in particular for situations relating to emergency procedures and adverse weather conditions where assessment would be unsafe, impractical or may lead to environmental damage.

Resources for assessment must include access to:

- applicable documentation, such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- tools, equipment, machinery, materials and relevant personal protective equipment (PPE) that are currently used in industry.

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2