



Australian Government

DEFPET006 Assist in the operation of the tank fabric collapsible marine system

Release: 1

DEFPET006 Assist in the operation of the tank fabric collapsible marine system

Modification History

Release 1. This is the first release of this unit of competency in the DEF Defence Training Package.

Application

This unit specifies the skills and knowledge required to assist in the operation of the tank fabric collapsible marine (TFCM) system to transfer fuel from ships anchored offshore to shorebased storage facilities.

It includes preparing and receiving a fuel bladder from a suitable marine vessel and issuing fuel from the TFCM system to shorebased operations.

The TFCM system is a flexible fuel storage tank that is installed onto a suitable marine vessel; it is used in the maritime environment where no other facilities exist to transfer fuel from ship to shorebased field fuel installations.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Persons undertaking this unit work in a team under supervision and perform routine tasks in familiar contexts.

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

Pre-requisite Unit

Not applicable

Competency Field

Petroleum Operations

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Prepare for operations

- 1.1** Obtain and confirm task requirements with relevant personnel
- 1.2** Unpack and inspect components for serviceability in accordance with operational procedures
- 1.3** Assemble components in accordance with manufacturer instructions
- 1.4** Obtain and confirm operational orders, administrative and emergency response procedures
- 1.5** Select and use appropriate personal protective equipment
- 1.6** Apply work health and safety (WHS)/occupational health and safety (OHS) requirements and safety precautions in accordance with operational procedures and emergency response plan
- 1.7** Identify and apply environmentally sustainable work practices, as required
- 1.8** Complete appropriate documentation or records, as required

2 Receive fuel from ship

- 2.1** Install flexible fabric tank onto vessel from the shore or directly off a ship in accordance with instructions, operational procedures and manufacturer specifications
- 2.2** Connect TFCM system to ship's pipeline in preparation for transfer operations
- 2.3** Conduct pre-operation checks in accordance with manufacturer instructions and operational procedures
- 2.4** Test fuel for product contamination, record results and quarantine defective product as required
- 2.5** Transfer fuel in accordance with instructions and operational procedures
- 2.6** Disconnect TFCM system from refuelling ship

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|---|--|
| 3 Issue fuel from TFCM system to shore | 3.1 Monitor condition of TFCM system during sea transit in accordance with operational procedures and emergency response plan and promptly report or rectify issues within scope of own authority |
| | 3.2 Discharge fuel after vessel has been moored in accordance with operational procedures |
| | 3.3 Monitor equipment during transfer operations and report or rectify faults, as required |
| | 3.4 Monitor gauges to ensure transfer is in accordance with operational procedures |
| | 3.5 Maintain communication with team members and relevant personnel during transfer operations |
| | 3.6 Extract fabric flexible tank from vessel |
| | 3.7 Recover equipment in accordance with operational procedures |
| 4 Finalise operations | 4.1 Clean and inspect equipment in accordance with manufacturer instructions |
| | 4.2 Conduct maintenance and minor repairs in accordance with operational and environmental 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 DEFPE006A Assist in the operation of the tank fabric collapsible marine system.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>

Assessment Requirements for DEFPET006 Assist in the operation of the tank fabric collapsible marine system

Modification History

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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 Australian dangerous goods codes including:
 - segregation and storage requirements
- applying relevant legislation, statutory requirements, and organisational policies and procedures
- assisting in the operation of the tank fabric collapsible marine (TFCM) system
- controlling fuel spills
- dealing effectively with unplanned events
- handling cleaning chemicals
- identifying hazards, assessing risks and implementing control measures
- interpreting fuel markings and panels
- interpreting technical diagrams and publications
- operating fuel pumping and discharge systems
- responding to emergencies in accordance with emergency response plans
- selecting and fitting appropriate personal protective equipment.

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:

- Australian dangerous goods codes including:
 - segregation and storage requirements
- cleaning procedures and use of cleaning agents
- dangerous goods handling procedures
- emergency response plan
- functions and responsibilities of team members
- hazard control methods associated with fuel products
- maintenance procedures for fuel storage mediums
- relevant maritime dangerous goods marine orders
- relevant legislation, safety and organisational policies and procedures

- TFCM system.

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 it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, safety equipment and personal protective equipment currently used in industry including:
 - TFCM system
 - bulk fuel tankers or simulated platform
 - suitable fuel products
 - specific workplace operating procedures and publications
- applicable documentation including operational procedures, regulations, codes of practice and operation manuals.

Links

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