



Australian Government

DEFPET001 Conduct field refuelling operations from a bulk fuel installation

Release: 1

DEFPET001 Conduct field refuelling operations from a bulk fuel installation

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 conduct refuelling of vehicles and plant from a bulk fuel installation in a field environment to transfer fuel products between storage mediums within the installation.

It includes preparing, conducting and completing refuelling and fuel transfer operations.

This unit applies to persons working as petroleum operators in Defence but is applicable to any individual in this field of work.

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 under supervision and perform specific tasks in a range of 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

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

- | | |
|--|---|
| 1 Prepare for and conduct refuelling and fuel transfer operations | 1.1 Identify and confirm refuelling tasks with supervisor |
| | 1.2 Inspect and prepare refuelling equipment for operation in accordance with manufacturer specifications and operational procedures |
| | 1.3 Select and fit personal protective equipment to operate bulk fuel installation in accordance with safety data sheets, environmental and work health and safety procedures |
| | 1.4 Test for fuel contamination and quarantine, as required |
| | 1.5 Monitor fuel transfer process, and rectify and/or report faults in accordance with manufacturer specifications and operational procedures |
| | 1.6 Recognise equipment breakdowns and emergencies/incidents, and instigate emergency response plan to shut down fuel transfer process in accordance with manufacturer specifications and operational guidelines |
| 2 Complete refuelling operations | 2.1 Shut down, maintain and pack away refuelling equipment in the bulk fuel installation in accordance with manufacturer specifications and operational procedures |
| | 2.2 Recover, inspect and maintain fuel transfer equipment in accordance with operational procedures |
| | 2.3 Complete documentation, as required |
| | 2.4 Refurbish equipment in the fuel installation in accordance with manufacturer specifications and operational 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 DEFPE001A Conduct field refuelling operations from a bulk fuel installation.

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 DEFPET001 Conduct field refuelling operations from a bulk fuel installation

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 relevant legislation, regulatory standards, and organisational policies and procedures
- controlling fuel spills
- earthing vehicle and plant
- implementing environmentally sustainable work practices
- interpreting fuel markings and panels
- operating refuelling equipment
- refuelling vehicles and plant
- responding to emergencies using emergency response plans
- testing fuel for product contamination.

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
- causes of explosions and related preventative measures
- emergency/incident response plans
- environmental protection measures to be applied during fuel transfer operations
- firefighting techniques
- fuel products and fuel transfer systems including valve and hose systems
- functions and responsibilities of team members
- hazard control methods associated with fuel products
- hydraulics principles
- physical properties of fuels
- refuelling equipment must include one or more of the following:
 - 50 mm/100 mm fuel equipment including:
 - fittings

- pipelines and hoses
- pumps
- valves, vessels and tanks
- measurement instruments including:
 - hydrometers
 - tapes
 - thermometers
- relevant organisational policies and procedures.

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.

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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, equipment and personal protective equipment currently used in industry including:
 - workplace refuelling equipment and fuel products
 - safety equipment
 - specific workplace operating procedures and publications
- applicable documentation including operational procedures, regulations, codes of practice and operation manuals.

Links

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