



**Australian Government**

# **DEFPE002A Conduct field refuelling operations using drum stock**

**Release: 2**

# DEFPE002A Conduct field refuelling operations using drum stock

## Modification History

Release	TP Version	Comments
2	DEF12V2	Layout adjusted. No changes to content.
1	DEF12V1	Primary release.

## Unit Descriptor

This unit covers the competency required to refuel vehicles and equipment from packaged fuel within a field environment.

## Application of the Unit

This unit applies to refuelling operations performed from small temporary field refuelling sites and includes the supply of both *liquid fuels* and other fuel products. Drum stock includes the use of drums up to 205 litre and/or small portable fuel bladders; refuelling operations may be conducted using either small motorised or hand fuel pumping equipment. The conduct of field refuelling tasks from larger, more complex facilities is covered within DEFPE001A Conduct field refuelling operations from a bulk fuel installation. Personnel may perform tasks within this unit either as individuals or as part of a small team under limited supervision, following set procedures and methods, requiring some discretion and judgement.

## Licensing/Regulatory Information

Not applicable.

## Pre-Requisites

Not applicable.

## Employability Skills Information

This unit contains employability skills.

## Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where ***bold italicised*** text is used, further information is detailed in the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for refuelling tasks	<p>1.1 <b>Equipment</b> is inspected for serviceability and prepared for operation in accordance with <b>workplace procedures</b></p> <p>1.2 Refuelling site is established in accordance with workplace procedures and given directions</p> <p>1.3 <b>Safety equipment</b> is selected and used during refuelling operations</p> <p>1.4 Fuel products are handled in accordance with manufacturers' instructions and safety procedures</p> <p>1.5 <b>Fuel is tested</b> for product contamination.</p> <p>1.6 Contaminated product is quarantined and reported to supervisor</p> <p>1.7 Work health and safety (WHS) requirements and recognised safety precautions are applied throughout the operation in accordance with standard procedures</p> <p>1.8 Environmentally sustainable work practices are identified, assessed and implemented where feasible</p>
2. Perform refuelling operations	<p>2.1 Vehicles and equipment are earthed prior to commencement of refuelling operations</p> <p>2.2 Refuelling tasks are conducted in accordance with workplace procedures</p> <p>2.3 Refuelling equipment is operated in accordance with manufacturers' instructions</p> <p>2.4 Refuelling operations are monitored and faults are rectified or reported in accordance with workplace procedures</p> <p>2.5 <b>Emergencies/incidents</b> are responded to in accordance with <b>emergency response plans</b></p>
3. Finalise refuelling operations	<p>3.1 Refuelling equipment is shut down in accordance with manufacturers' instructions</p> <p>3.2 Refuelling equipment is maintained in accordance with manufacturers' instructions and workplace procedures</p> <p>3.3 Refuelling documentation is compiled in accordance with workplace procedures</p> <p>3.4 <b>Other fuel products</b> are issued in accordance with workplace procedures</p> <p>3.5 Refuelling equipment is packed away in preparation for re-deployment</p>

**ELEMENT****PERFORMANCE CRITERIA**

3.6 Refuelling site is refurbished in accordance with organisational environmental policies and procedures

**Required Skills and Knowledge**

This describes the essential skills and knowledge and their level, required for this unit.

**Required Skills**

- calculate the mass, volume and special requirements of packaged fuel products
- compile documentation specific to the issue of fuel products
- control fuel spills
- interpret fuel markings and panels
- select and use personal protective equipment
- use firefighting equipment

**Required Knowledge**

- dangerous goods handling procedures
- emergency procedures when transferring and handling fuel products
- environmental protection measures to be applied during refuelling and fuel transfer operations
- first aid
- fuel testing procedures
- fuel products and fuel transfer systems including:
  - causes of explosions and related preventive measures
  - physical properties of fuels
  - simple hydraulics principles
  - valve and hose systems
- functions and responsibilities of team members during refuelling and fuel transfer operations
- hazard control methods associated with fuel products
- hazards and safety precautions to be observed during refuelling and fuel transfer operations
- maintenance procedures for fuel transfer systems
- relevant WHS and pollution control legislation and policies

## Evidence Guide

### Critical aspects for assessment and evidence required to demonstrate competency in this unit

Assessment must confirm the ability to:

- supply liquid fuels and other fuel products
- use drums up to 205 litre and small portable fuel bladders
- use small motorised and hand fuel pumping equipment.

### Consistency in performance

Competency should be demonstrated over time to ensure the candidate is assessed across a wide variety of situations within the workplace.

### Context of and specific resources for assessment

#### Context of assessment

Competency should be assessed in a field environment.

#### Specific resources for assessment

Access is required to:

- workplace refuelling systems and fuel products
- safety equipment and personal protective equipment
- specific workplace operating procedures and publications.

## Range Statement

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording in the Performance Criteria is detailed below.

<b><i>Liquid fuels</i></b> may include:	<ul style="list-style-type: none"> <li>• Aviation gasoline</li> <li>• Aviation turbine fuels</li> <li>• Diesel fuel</li> <li>• Ground gasoline</li> <li>• Kerosene</li> </ul>
<b><i>Equipment</i></b> may include:	<ul style="list-style-type: none"> <li>• Firefighting equipment</li> <li>• Fuel hoses</li> <li>• Motorised/hand fuel pumps</li> <li>• Spill kits</li> </ul>
<b><i>Workplace procedures</i></b> may include:	<ul style="list-style-type: none"> <li>• Australian Standards</li> <li>• Briefs</li> <li>• Duty statements</li> <li>• Fire orders</li> <li>• Legislative requirements</li> <li>• Manufacturers' handbooks, industry specifications and technical instructions</li> <li>• WHS regulations</li> <li>• Organisational policies and procedures</li> <li>• Pollution control plan</li> <li>• Procedure manuals</li> <li>• Relevant state/territory or federal legislation</li> <li>• Standard Operating Procedures</li> <li>• Technical procedures</li> <li>• Written or verbal instructions</li> </ul>
<b><i>Safety equipment</i></b> may include:	<ul style="list-style-type: none"> <li>• Emergency shower/eye wash</li> <li>• Emergency spill kits</li> <li>• Fire extinguishers</li> <li>• First aid kits</li> <li>• Personal protective equipment including:             <ul style="list-style-type: none"> <li>• eye protection</li> <li>• gloves</li> <li>• hearing protection</li> <li>• high visibility clothing</li> <li>• mask or respirator</li> <li>• safety headwear and footwear</li> </ul> </li> </ul>
<b><i>Testing fuel for product</i></b>	<ul style="list-style-type: none"> <li>• Appearance</li> </ul>

<i>contamination</i> must include:	<ul style="list-style-type: none"> <li>• Particulate</li> <li>• Water</li> </ul>
<i>Emergencies/incidents</i> may include:	<ul style="list-style-type: none"> <li>• Explosions</li> <li>• Fires</li> <li>• Fuel spills</li> <li>• Inhalation and/or skin contact with vapours and gases</li> </ul>
<i>Emergency response plans</i> may include:	<ul style="list-style-type: none"> <li>• Fire plan</li> <li>• First aid plan</li> <li>• Spill/environmental plan</li> </ul>
<i>Other fuel products</i> may include:	<ul style="list-style-type: none"> <li>• Anti-freeze fluids</li> <li>• Greases</li> <li>• Oils and lubricants</li> <li>• Temporary protectives</li> </ul>

## Unit Sector(s)

Not applicable.