



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **PUADEFPE001A Conduct field refuelling operations from a bulk fuel installation**

**Revision Number: 1**

## **PUADEFPE001A Conduct field refuelling operations from a bulk fuel installation**

### **Modification History**

Not applicable.

### **Unit Descriptor**

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This unit covers the competency 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.

### **Application of the Unit**

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This competency applies to personnel working as individuals or in small teams under direct supervision, with limited decision making.

Refuelling operations involve the use of a range of refuelling equipment from 50 mm to 100 mm and may incorporate single or multiple fuel products within a single installation.

### **Licensing/Regulatory Information**

Not applicable.

### **Pre-Requisites**

Not applicable.

## Employability Skills Information

<b>Employability Skills</b>	This unit contains employability skills.
<b>Pre-requisite Unit/s</b>	Nil

## 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 Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

## Elements and Performance Criteria

### ELEMENT

#### 1. Prepare for refuelling operations

### PERFORMANCE CRITERIA

- 1.1 Refuelling tasks are received and confirmed with supervisor
- 1.2 ***Refuelling equipment*** is inspected and prepared for operation in accordance with ***workplace procedures***
- 1.3 ***Personal protective equipment*** is selected and worn during refuelling operations
- 1.4 ***Fuel is tested*** for product contamination.
- 1.5 Contaminated product is quarantined and reported to supervisor
- 1.6 Occupational health and safety (OH&S) requirements and recognised safety precautions are applied throughout the operation in accordance with standard procedures
- 1.7 Environmentally sustainable work practices are identified, assessed and implemented where feasible

**ELEMENT****PERFORMANCE CRITERIA****2. Perform field refuelling and fuel transfer operations**

- 2.1 Vehicles and plant are earthed to prevent discharge of static electricity prior to commencement of refuelling
- 2.2 Refuelling equipment is operated in accordance with manufacturers' instructions
- 2.3 Refuelling operations are conducted in accordance with workplace procedures
- 2.4 Fuel transfer process is monitored and faults are rectified or reported in accordance with workplace procedures
- 2.5 ***Emergencies/incidents*** are responded to in accordance with ***emergency response plans***
- 2.6 Fuel transfer process is shut down in accordance with workplace procedures
- 2.7 Documentation is completed in accordance with workplace procedures

**3. Cease refuelling operations**

- 3.1 Bulk fuel installation is ***decommissioned*** in accordance with workplace procedures
- 3.2 Fuel transfer equipment is recovered in accordance with workplace procedures
- 3.3 Fuel transfer equipment is inspected and maintained in accordance with manufacturers' instructions
- 3.4 Maintenance documentation is completed in accordance with workplace procedures
- 3.5 Installation site is refurbished in accordance with organisational environmental policies and procedures

## Required Skills and Knowledge

### REQUIRED SKILLS AND KNOWLEDGE

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

#### Required Skills

- control fuel spills
- interpret fuel markings and panels
- interpret technical diagrams and publications
- select and use appropriate petroleum equipment
- select and use personal protective equipment
- use firefighting equipment such as fire extinguishers, knapsack sprayers, main line firefighting equipment

#### Required Knowledge

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

## Evidence Guide

### EVIDENCE GUIDE

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

Assessment must confirm the ability to refuel vehicles and refuel plant.

#### **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 the workplace or a simulated environment.

#### **Specific resources for assessment**

Access is required to:

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

## Range Statement

### 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.

#### **Refuelling equipment may include**

50 mm/100 mm fuel equipment including:

- fittings
- pipelines and hoses
- pumps
- valves, vessels and tanks

Measurement instruments including:

- hydrometers
- tapes
- thermometers

#### **Workplace procedures may include**

Australian Standards  
Briefs  
Duty statements  
Legislative requirements  
Manufacturers' handbooks, industry specifications and technical instructions  
OH&S regulations  
Organisational policies and procedures  
Procedure manuals  
Relevant state/territory or federal legislation  
Standard Operating Procedures  
Technical procedures  
Written or verbal instructions

#### **Personal protective equipment may include**

Eye protection  
Gloves  
Hearing protection  
High visibility clothing  
Mask or respirator  
Safety headwear and footwear

#### **Testing fuel for product contamination must include testing**

Appearance  
Particulate  
Water

#### **Emergencies/incidents may include**

Explosions  
Fires  
Fuel spills  
Inhalation and/or skin contact with vapours and gases

**RANGE STATEMENT****Emergency response plans  
may include**Fire plan  
First aid plan  
Spill/environmental plan**Decommissioning may  
include**Deconstructing the system  
Pigging the pipelines**Unit Sector(s)**

Not applicable.

**Corequisite Unit/s****Co-requisite Unit/s**

Nil