

Australian Government

Department of Education, Employment and Workplace Relations

PUADEFPE004A Assist in the construction and maintenance of a nonpermanent bulk fuel installation

Release: 1



PUADEFPE004A Assist in the construction and maintenance of a nonpermanent bulk fuel installation

Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit covers the competency required to assist in the construction and maintenance of multi product nonpermanent bulk fuel installations, often situated in a remote locality.

Application of the Unit

Application of the UnitThis unit applies to personnel working in teams under
supervision. The complexity of construction is in direct
relation to the size of the installation and the number of
different fuel products to be stored.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Employability Skills This unit contains employability skills.

Pre-requisite Unit/s Nil

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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	PERFORMANCE CRITERIA
1. Prepare for construction	 1.1 Installation instructions, including <i>schematic diagrams</i>, are received and confirmed with supervisor 1.2 <i>Equipment</i> is selected and inspected for serviceability prior to construction 1.3 <i>Safety equipment</i> is set-up prior to commencement of construction 1.4 Occupational health and safety (OH&S) requirements and recognised safety precautions are applied throughout the operation in accordance with standard procedures 1.5 Environmentally sustainable work practices are identified, assessed and implemented where feasible
2. Construct field bulk fuel installations	 2.1 Storage tanks are positioned in accordance with schematic diagrams and orders 2.2 <i>Manifold system</i> is constructed in accordance with <i>workplace procedures</i> and schematic diagram 2.3 <i>Problems encountered during construction process</i> are rectified within scope of own authority or reported to supervisor 2.4 Installation is <i>pressure tested</i> and <i>commissioned</i> in accordance with supervisor's instructions and workplace procedures 2.5 Site is refurbished in accordance with workplace procedures

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ELEMENT

3. Maintain field bulk fuel installations

PERFORMANCE CRITERIA

- 3.1 Equipment is maintained in accordance with manufacturers' instructions and workplace procedures
- 3.2 *Housekeeping duties* are performed in accordance with workplace procedures
- 3.3 Bulk fuel storage tanks are measured and levels are recorded in accordance with workplace procedures
- 3.4 Emergencies are responded to in accordance with workplace procedures
- 3.5 *Fuel istested* for product contamination and results are recorded
- 3.6 Contaminated product is quarantined and reported to supervisor

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

Required Knowledge

- dangerous goods handling procedures
- first aid
- fuel transfer equipment operation
- functions and responsibilities of team members
- hazard control methods associated with fuel products
- maintenance procedures for fuel transfer systems
- relevant OH&S and pollution control legislation and policies

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Evidence Guide

EVIDENCE GUIDE

Critical aspects for assessment and evidence required to demonstrate competency in this unit Assessment must confirm the ability to:

- assist in constructing and maintaining different types of non-permanent bulk fuel installations of different sizes and with different fuel products to be stored
- work as part of a team
- work remotely.

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 assessmentContext of assessmentCompetency should be a

Competency should be assessed in a field environment. **Specific resources for assessment** Access is required to:

- workplace equipment required for the construction of non-permanent bulk fuel installations
- 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.

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Schematic diagrams may include	Bunding Pipelines Pumps Safety equipment Storage tanks
Equipment may include	 50 mm/100 mm fuel equipment including: fittings fuel metering equipment pipelines and hoses pumps valves, vessels and tanks
	 Measurement instruments including: hydrometers thermometers tapes
Safety equipment may include	 Emergency shower/eye wash Fire extinguishers First aid kits Spill kits
Manifold system may include	 Bonding Earthing Filters Fittings Pipes Pumps Valves
Workplace procedures may include	Australian Standards Briefs Duty statements Fire orders Legislative requirements Manufacturers' handbooks, industry specifications and technical instructions OH&S regulations Organisational policies and procedures

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RANGE STATEMENT

	Pollution control plan
	Procedure manuals
	Relevant state/territory or federal legislation
	Standard Operating Procedures
	Technical procedures
	Written or verbal instructions
Problems encountered	Damaged storage tanks and pipelines
during construction process	Incorrect site selection/preparation
may include	Insufficient equipment
Pressure testing of	Correct earthing and bonding
installation may include	Ensuring a closed system
	• Ensuring installation conforms to schematic diagram
	• Security of all components, fittings and fasteners
	 Testing installation for leaks
Commissioning of	Receipting fuel
installation may include	Testing fuel
	Testing installation for serviceability
Housekeeping duties may	• Inspecting bulk fuel installation for leaks
include	• Inspecting integrity of earthing and bonding
	Appearance
Testing fuel for product	Deutienslete
contamination must include	
testing	• Water

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s Nil