



**Australian Government**

# **Assessment Requirements for PMAOPS343**

## **Transfer bulk fluids into/out of storage facility**

**Release: 1**

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## **Modification History**

Release 1. Unit code and Application changed. Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMAOPS307 Transfer bulk fluids into/out of storage facility.

## **Performance Evidence**

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit:

- at least 2 times, each in a separate work context

## **Knowledge Evidence**

There must be evidence the candidate has knowledge of:

- all items on a schematic of the storage/transfer system, including:
  - interactions between plant items and processes
  - operating parameters and integrity limits, product specifications and tolerances, tank and product mixes, flow rates and measures, tank capacities and percentages, process parameters and limits, including temperature, pressure, flow and pH
  - function and troubleshooting techniques of major components, including impellers, seals or bearings
  - procedures for starting, stopping, operating, controlling and isolating the facility
- physics and chemistry to the level of being able to provide an overview of the science of the storage/transfer process and the causes of head loss in piping systems, including comparison of fittings using the L/d concept, fluid and pipe material properties, flow geometry and static electricity principles
- storage facility abnormal situations and required actions, including:
  - insufficient and inappropriate storage for product and material
  - interruptions to loading through adverse weather conditions
  - product surging
  - control of temperature and pressure
  - variations in feed
  - vibration
  - tank capacities and space
  - problems with major components
- hierarchy of control
- storage and transfer hazards:
  - possible causes

- potential consequences
- appropriate risk controls.

## Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
  - storage transfer facility and equipment
  - operating procedures
- abnormal situations must be relevant to the transfer of bulk fluids.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=9fc2cf53-e570-4e9f-ad6a-b228ffdb6875>