



**Australian Government**

**Assessment Requirements for PMAOPS348  
Operate safety, protection and shutdown  
systems**

**Release: 1**

# Assessment Requirements for PMAOPS348 Operate safety, protection and shutdown systems

## Modification History

Release 1. This version was released with PMA Chemical, Hydrocarbons and Refining Training Package, Release 2.0.

## Performance Evidence

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

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

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- physical plant and equipment, including:
  - the main items on the safety, protection and shutdown systems schematics and the function of each
  - safety, protection and shutdown systems equipment terminology
  - specific key safety, protection and shutdown systems alarms and appropriate actions
  - locations of muster points, emergency-response beacons and equipment relevant to the safety, protection and shutdown systems
- policies and procedures, including:
  - safety, protection and shutdown systems duty-of-care obligations
  - required preparation and approvals required for different types of work to be completed on the safety, protection and shutdown systems unit or their component items
  - emergency shutdown procedures and communication protocols
  - incident response role requirements within the Site Safety Management Plan when safety, protection and shutdown systems are activated
  - safety, protection and shutdown system critical-function testing regimes and their own role within those regimes
- operational parameters including:
  - correct methods of activating, resetting the safety, protection and shut down systems
  - understanding of the Cause-and-Effects diagrams of the safety, protection and shut down systems
  - specific actions taken upon activation of the safety, protection and shutdown systems
  - specific key operating principles of safety, protection and shutdown systems equipment and associated ancillary equipment

- safety, protection and shut down systems activation parameters, integrity limits, and regulatory specifications and tolerances
- risk management including:
  - override management process
  - impacts that activation of the emergency shutdown and safety systems have on the process safety being operated
  - impacts that activation of the emergency shutdown and safety systems have on the relevant upstream and downstream processes to the level of being able to make sound decisions regarding activation
  - impact of external factors on safety, protection and shutdown systems
  - appropriate application of hierarchy of control to manage risks
- safety, protection and shutdown systems 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:
  - safety protection and shutdown systems
  - operating procedures
- abnormal situations that would trigger the activation of safety, protection and/or shutdown system.

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>