



Australian Government

Assessment Requirements for PMAOPS359 Operate and troubleshoot process measurement and control systems

Release: 1

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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:

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

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- all items on local process measurement and control systems including:
 - type and functions
 - troubleshooting techniques and response to error messages and alarms
 - principles of operation
 - operating parameters and integrity limits, and product specifications and tolerances, including engineering units and scale
 - operating procedures and correct methods of starting, stopping, operating, controlling isolating and de-isolating the systems
 - redundancy shutdown procedures and protocols
 - interactions between plant items and processes including but not limited to control loops, control valves, actuators and positioners
 - condition monitoring systems, their program interfaces and requisite checks
 - equipment safeguarding relevant to the systems and area
- process-specific physics and chemistry to the level of being able to provide an overview of the science of the process measurement and control systems
- local process measurement and control system abnormal situations and required action, including but not limited to:
 - variation or loss of supply
 - unstable control of pressure, temperature, level and flows
 - control equipment failure
 - instrument readings that have no variance over time
 - energy source failure
 - interpretation from test results
 - analyser inaccuracy or malfunction

- hierarchy of control
- process measurement and control system hazards:
 - possible causes
 - potential consequences
 - appropriate risk controls
 - reporting and escalation procedures.

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:
 - real industrial equipment located in either a live plant or a realistic simulated industrial environment
 - routine operating procedures.

Abnormal situations must include:

- industry incidents or events relevant to the operation of process measurement and control systems
- actions adhering to workplace policies and procedures.

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>