PMAOPS347 Create and conduct isolations in the workplace

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.

Application

This unit of competency describes the skills and knowledge required to isolate and prepare a plant for maintenance work, maintain isolations, remove isolation and return a plant to service.

This unit of competency applies to operators, maintainers and those in similar roles who are required to create and conduct isolations and de-isolations, and reinstate equipment in an industrial installation. The person will have detailed operational and process knowledge and may work alone or as part of a team. The person will usually report through to a permit co-ordinator, supervisor or central-control-room operator.

Creation and implementation of the isolation requires appropriate consideration of known plant equipment and/or systems not functioning according to design. This typically includes but is not limited to passing valves, blocked lines, drains and system dead legs.

No licensing, legislative or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

PMASUP244 Prepare and isolate plant

Competency Field

Operations

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential *outcomes.*	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Plan and prepare for isolations according to procedures	1.1 Communicate with relevant stakeholders to confirm the scope of work, and the need for timing of the isolation
	1.2 Identify hazards in the system that need to be controlled to a state of zero energy
	1.3 Create appropriate isolation documents using current workplace

Elements	Performance Criteria
Elements describe the essential *outcomes.*	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
	isolation procedures
	1.4 Verify isolation design
	1.5 Submit isolation documentation according to workplace isolation submission chain-of-custody requirements
2. Conduct isolations	2.1 Confirm with stakeholders that isolation is ready to proceed
	2.2 Conduct the isolation according to isolation design and operating procedures
	2.3 Remove energy input and hazardous inventory in accordance with operating procedures
	2.4 Ensure isolation integrity is performed according to operating procedures
	2.5 Participate in appropriate handovers of equipment and isolation documentation according to operating procedures
3. Maintain Isolations	3.1 Maintain isolation integrity according to operating procedures
	3.2 Take corrective action when isolation integrity is no longer effective
4. Conduct de- isolations	4.1 Confirm process plant is mechanically complete
	4.2 Obtain de-isolation documentation according to operating procedures
	4.3 De-isolate and reinstate plant according to operating procedures
	4.4 Maintain appropriate communication with relevant stakeholders
	4.5 Finalise documentation according to operating procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

- Learning skills to follow instructions, monitor process and select appropriate procedure.
- Reading skills to follow written procedures and documentation.
- Writing skills to complete workplace documentation.
- Oral communication skills to liaise and coordinate with team members and the control-room operator.
- Numeracy skills to monitor field data, instrumentation and process parameters.

Other foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Release 1. New Unit.

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=9fc2cf53-e570-4e9f-ad6a-b228ffdb6875