

**Consultation Paper for Draft 2**

**PMA Chemical, Hydrocarbons and Refining  
 Training Package**

**September 2019**

# General Update

This consultation paper provides key information about proposed changes to the PMA Chemical, Hydrocarbons and Refining Training Package, and should be read prior to providing feedback on any drafts.

The proposed changes to training package components have been informed by feedback from stakeholders and overseen by industry representatives who formed a Technical Advisory Committee (TAC). The [Process Manufacturing, Recreational Vehicles and Laboratory Industry Reference Committee](https://www.ibsa.org.au/irc/sustainability-industry-reference-committee/) have final authority over the PMA Chemical, Hydrocarbons and Refining Training Package.

Once the public consultation period ends on **Tuesday, 1 October 2019**, the TAC will meet to discuss feedback which will inform the development of the final draft, which will be submitted for endorsement in December 2019.

Please note, not all PMA coded units are being reviewed as part of this project. Attachment A lists all Training Package components that are included in this project.

# Submitting feedback

Feedback should be emailed to [manufacturing@ibsa.org.au](mailto:manufacturing@ibsa.org.au)by **Tuesday, 1 October 2019**. Draft training package components have been provided in word to enable changes to be marked up.

Please note, it is just as important for us to receive feedback telling us you agree with the changes as it is to provide feedback telling us where there is opportunity for improvement.

# Key Information about Proposed Changes

An overview of the changes is provided below, accompanying this are key questions to consider when reviewing the drafts. **Attachment A** lists all 27 existing and 5 new PMA units that are included in this project and provides a summary of changes.

**Units of Competency**

**New units:**

The following **new** units have been written in consultation with industry. They are proposed for inclusion in the Certificate III in Process Plant Operations.

* PMAOPS344 Operate and troubleshoot flare systems
* PMAOPS345 Operate and troubleshoot gas treatment process
* PMAOPS346 Operate and troubleshoot liquefaction process
* PMAOPS347 Create and conduct isolations in the workplace
* PMAOPS348 Operate safety, protection & shut down systems

***Key questions to consider…***

1. Do the proposed new units reflect current industry practice?
2. Do the proposed new units reflect current industry terminology?
3. Are assessment requirements for the units appropriate?

**Existing units:**

Attachment A lists all 27 **EXISTING** units that form this project and provides a summary of changes. The revisions to these units include:

***Draft 2 changes:***

* further clarification of process for isolation/de-isolation process in equipment units.
* performance evidence requirements clarified to be ‘*at least 2 times in separate work context*’.
* clarification of knowledge requirements, for example in relation to science.
* clarification of role requirements for certificate III workers and removal of requirements exceeding role.

***Draft 1 changes*:**

* content reviewed for consistency across units, in particular, units relating to equipment and process systems were revised to ensure consistency in operating, shutting down and starting up process systems and dealing with abnormal situations.
* current industry terminology was updated for consistency
* unit codes and some names changed
* changes to the Application and licensing statement
* the Range of Conditions removed (because the information included did not meet the intent of the 2012 Standards for Training Packages - some of this information has been moved to the Knowledge Evidence field or the Assessment Requirements)
* changes to the Elements and Performance Criteria
* updated Unit Mapping Information
* updated link to Training Package Companion Volumes
* Performance Evidence was often a repeat of the performance criteria or was introducing new skill requirements not listed in the performance criteria. This is not the intent of this field. This has been reduced to include key information, usually about frequency and volume
* Knowledge Evidence updated to include some information that was previously included in the Range of Conditions
* There was a significant amount of guidance/superfluous information in the Assessment Conditions. This has now been reduced to focus on the key conditions that must be in place for assessment.

***Key questions to consider…***

1. Do the units reflect current industry practice?
2. Do the units reflect current industry terminology?
3. Are assessment requirements for the units appropriate?
4. Are the changes to existing units appropriate?

**Qualification**

It is proposed that the *PMA30116 Certificate III in Process Plant Operations* is updated to include the proposed new units as electives in Group A. The 27 revised units and 5 new units will also be updated where listed in qualifications across the PMA Training Package.

***Key questions to consider…***

1. Do you agree with adding proposed new units to the Certificate III electives in Group A?

# Attachment A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Existing code** | **Existing title** | **New code** | **New title** | **Mapping** | **Summary of changes** |
| PMAOPS300 | Operate a production unit | PMAOPS306 | Operate and troubleshoot a production unit | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS301 | Operate a distillation unit | PMAOPS310 | Operate and troubleshoot a distillation unit | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS302 | Operate reactors and reaction equipment | PMAOPS311 | Operate and troubleshoot reactors and reaction equipment | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS303 | Operate furnaces to induce reaction | PMAOPS313 | Operate and troubleshoot furnaces to induce reaction | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS304 | Operate and monitor compressor systems and equipment | PMAOPS314 | Operate and troubleshoot compressor systems and equipment | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS305 | Operate process control systems | PMAOPS315 | Operate and troubleshoot process control systems | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS308 | Organise storage and logistics of general materials | PMAOPS316 | Organise storage and logistics of general materials | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS312 | Undertake ship loading/unloading operations | PMAOPS317 | Undertake ship loading and unloading operations | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS320 | Conduct artificial lift | PMAOPS318 | Conduct artificial lift | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS321 | Undertake well management | PMAOPS322 | Undertake well management | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS323 | Operate and monitor heating furnace | PMAOPS328 | Operate and troubleshoot heating furnace | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS324 | Operate a gas turbine | PMAOPS331 | Operate and troubleshoot a gas turbine | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS325 | Generate electrical power | PMAOPS332 | Generate electrical power | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS326 | Operate gas absorption unit | PMAOPS334 | Operate and troubleshoot gas absorption system | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS327 | Operate fixed bed adsorption unit | PMAOPS336 | Operate and troubleshoot fixed bed adsorption unit | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS329 | Operate liquid extraction unit | PMAOPS337 | Operate and troubleshoot liquid extraction unit | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS330 | Communicate and monitor pipeline activities | PMAOPS338 | Communicate and monitor pipeline activities | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS333 | Operate wells and gathering systems | PMAOPS339 | Operate and troubleshoot wells and gathering systems | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS340 | Operate cryogenic processes | PMAOPS341 | Operate and troubleshoot cryogenic processes | Superseded | Name changed and new code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS335 | Conduct pipeline pigging | PMAOPS342 | Conduct pipeline pigging | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOPS307 | Transfer bulk fluids into/out of storage facility | PMAOPS343 | Transfer bulk fluids into/out of storage facility | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
|  |  | PMAOPS344 | Operate and troubleshoot flare systems | New unit |  |
|  |  | PMAOPS345 | Operate and troubleshoot gas treatment process | New unit |  |
|  |  | PMAOPS346 | Operate and troubleshoot liquefaction process | New unit |  |
|  |  | PMAOPS347 | Create and conduct isolations in the workplace | New unit |  |
|  |  | PMAOPS348 | Operate safety, protection & shut down systems | New unit |  |
| PMAOMIR305 | Operate panel during an emergency | PMAOMIR306 | Operate control panel during an emergency | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOMIR320 | Manage incident response information | PMAOMIR322 | Manage incident response information | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMAOMIR321 | Manage communication systems during an incident | PMAOMIR323 | Manage communication systems during an incident | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMASUP343 | Monitor and maintain cathodic protection systems | PMASUP348 | Monitor and maintain cathodic protection systems | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMASUP344 | Monitor and control repairs and modifications on operational pipe | PMASUP349 | Monitor and control repairs and modifications on operational pipe | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |
| PMASUP346 | Control corrosion | PMASUP350 | Control corrosion | Superseded | New code to be allocated. Application simplified. Unit template updated. Changes to performance criteria. Range of conditions removed. Changes to performance evidence. Changes to knowledge evidence. Assessment conditions simplified. |