



Australian Government

PMA50116 Diploma of Process Plant Technology

Release 3

PMA50116 Diploma of Process Plant Technology

Modification History

Release 3. Seven low use units removed from elective bank as determined at December 2020 AISC meeting in response to Skills Ministers' objectives. Equivalent.

Release 2. Elective unit updated to current release. Supersedes and is equivalent to PMA50116 Diploma of Process Plant Technology (Release 1).

Release 1. Supersedes and is equivalent to PMA50108 Diploma of Process Plant Technology.

Qualification Description

Entry Requirements

There are no entry requirements for this qualification.

Packaging Rules

To be awarded the PMA50116 Diploma of Process Plant Technology competency must be achieved in **ten (10)** units of competency:

- **four (4)** core units of competency
- **six (6)** elective units of competency, chosen as specified below:
 - a minimum of **two (2)** from Group A
 - the remainder may be chosen from Groups A, B and C (with a maximum of **two (2)** from Group C) to bring the total number of electives to **six (6)**.

Note: **Two (2)** elective units can be chosen from other qualifications in this Training Package, other endorsed Training Packages and accredited courses, as specified in Group C.

Note: Where prerequisite units are identified they must be counted in the total number of units required for achievement of the qualification.

Core units of competency

Complete all **four (4)** units from the following list.

Unit code	Unit title
MSMENV272	Participate in environmentally sustainable work practices
MSMSUP200	Achieve work outcomes

MSMSUP210	Process and record information	
MSMWHS200	Work safely	
ELECTIVE UNITS		
Group A – Technical electives		
Unit code	Unit title	Prerequisites
PMAOPS500	Optimise production systems	
PMAOPS501	Provide operational expertise to a project team	
PMAOPS505	Control the process during abnormal situations	
PMAOPS511	Determine energy transfer loads	
PMAOPS512	Determine mass transfer loads	
PMAOPS520	Manage utilities	
PMAOPS521	Plan plant shutdown	
PMAOPS522	Coordinate plant shutdown	
Up to one (1) technical elective unit may be chosen from Group A in PMA60116 Advanced Diploma of Process Plant Technology		
Group B – Support electives		
Unit code	Unit title	Prerequisites
MSMWHS503	Maintain WHS management system	
MSMWHS510	Manage risk	
PMAOMIR512	Establish incident response preparedness and response systems	

PMASUP520	Review procedures to minimise environmental impact of process	
PMASUP540	Analyse equipment performance	
PMAWHS502	Contribute to safety case	
PMAWHS511	Manage emergency incidents	
Group C – Other electives		
Unit code	Unit title	Prerequisites
MSL954004	Obtain representative samples in accordance with sampling plan	
MSMENV472	Implement and monitor environmentally sustainable work practices	
MSMOPS400	Optimise process/plant area	
MSMOPS401	Trial new process or product	
MSMPER300	Issue work permits	MSMWHS201
MSMPER400	Coordinate permit process	MSMPER300
MSMSUP390	Use structured problem-solving tools	
MSMSUP400	Develop and monitor quality systems	
MSMSUP404	Coordinate maintenance	
MSMSUP405	Identify problems in fluid power system	
MSMSUP406	Identify faults in electronic control	
MSMWHS400	Contribute to WHS management system	
MSMWHS401	Assess risk	
MSS403085	Ensure process improvements are sustained	
MSS403011	Facilitate implementation of competitive systems and practices	

MSS405013	Facilitate holistic culture improvement in an organisation	
MSS403086	Improve cost factors in work practices	
MSS403040	Facilitate and improve implementation of 5S	
MSS403054	Facilitate breakthrough improvements	
MSS403087	Mistake proof an operational process	
MSS404084	Undertake process capability improvements	MSS404052
MSS404060	Facilitate the use of planning software systems in a work area or team	
MSS404085	Undertake proactive maintenance analyses	
MSS404086	Assist in implementing a proactive maintenance strategy	
MSS404054	Apply statistics to operational processes	
PMAOMIR407	Audit incident preparedness and established response systems	
PMAOMIR418	Coordinate incident response	
PMAOMIR424	Develop and maintain community relationships	
PMAOMIR430	Conduct and assess incident exercises	
PMAOMIR444	Develop incident containment tactics	
PMAOPS280	Interpret process plant schematics	
PMAOPS350	Match and adjust colour	
PMAOPS402	Respond to abnormal process situations	MSMSUP390
PMAOPS405	Operate complex control systems	
PMAOPS410	Operate remote production facilities	
PMAOPS411	Manage plant shutdown and restart	
PMAOPS433	Manage wells and gathering systems	

PMAOPS434	Commission wells and gathering systems	
PMAOPS450	Solve colour problems	
PMAOPS460	Monitor and operate tailings management facilities	
PMASUP410	Develop plant documentation	
PMASUP420	Minimise environmental impact of process	
PMASUP440	Commission/recommission plant	
PMASUP441	Decommission plant	
PMASUP444	Plan plant preparation and isolation	
PMASUP445	Participate in HAZOP studies	PMAOPS280
TAEASS401	Plan assessment activities and processes	
TAEASS402	Assess competence	
TAEASS403	Participate in assessment validation	
Up to two (2) relevant units may be chosen from this Training Package, other endorsed Training Packages and accredited courses, where those units are packaged in a Certificate IV or above.		

Qualification Mapping Information

Release 3. Supersedes and is equivalent to PMA50116 Diploma of Process Plant Technology (Release 2).

Release 2. Supersedes and is equivalent to PMA50116 Diploma of Process Plant Technology (Release 1).

Release 1. Supersedes and is equivalent to PMA50108 Diploma of Process Plant Technology.

Links

Companion Volume implementation guides are found in VETNet -

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