



Australian Government

PMA60116 Advanced Diploma of Process Plant Technology

Release 1

PMA60116 Advanced Diploma of Process Plant Technology

Modification History

Release 1. Supersedes and is equivalent to PMA60108 Advanced Diploma of Process Plant Technology

Qualification Description

The PMA60115 Advanced Diploma of Process Plant Technology is a technical qualification for technologists or para-professionals who undertake technical projects such as plant modifications either individually or as part of a project team where they have a significant technical role. They may have worked their way up through the process plant operation/technology certificate and diploma qualifications or may have entered the industry at this level, either from another industry or trade occupation.

Other non-technical Advanced Diplomas are available at this level such as MSS60312 - Advanced Diploma of Competitive Systems and Practices.

Entry Requirements

There are no entry requirements for this qualification.

Packaging Rules

To be awarded the PMA60116 Advanced Diploma of Process Plant Technology competency must be achieved in **fifteen (15)** units of competency:

- **four (4)** core units of competency
- **eleven (11)** elective units of competency, chosen as specified below:
 - a minimum of **one (1)** from Group A
 - a minimum of **one (1)** from Group B
 - the remainder may be chosen from Groups A, B, C and D (with a maximum of **seven (7)** from Group D) to bring the total number of electives to **eleven (11)**.

Note: Three (3) elective units can be chosen from other qualifications in this Training Package, other endorsed Training Packages and accredited courses, as specified in Groups C and D.

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
PMAOPS600	Modify plant	
PMAOPS601	Debottleneck plant	

PMAOPS751	Apply physiochemical knowledge to select raw materials for surface coatings	
PMAOPS752	Develop a decorative coating	
PMAOPS753	Develop a non-decorative coating or ink	
PMAOPS755	Provide surface coatings application advice	
MSMOPS601	Design equipment and system modifications	
Group B – Support electives		
Unit code	Unit title	Prerequisites
MSS405010A	Manage relationships with non-customer external organisations	
MSS405011A	Manage people relationships	
MSS405012A	Manage workplace learning	
MSS405030A	Optimise cost of a product or service	
MSS405031A	Undertake value analysis of product or process costs in terms of customer requirements	
MSS405040A	Manage 5S system in an organisation	
MSS405041A	Implement improvement systems in an organisation	
MSS405050 A	Determine and improve process capability	MSS404052A
MSS405060A	Develop the application of enterprise control systems in an organisation	
MSS405061A	Determine and establish information collection requirements and processes	
MSS405070A	Develop and manage sustainable energy practices	
MSS015002A	Develop strategies for more sustainable use of resources	

MSS405081A	Develop a proactive maintenance strategy	
MSMENV672	Develop workplace policy and procedures for environmental sustainability	
MSMWHS601	Develop WHS management system	
MSL936001	Maintain quality system and continuous improvement processes within work/functional area	
PMAOMIR622	Build partnerships to improve incident response capacity	
PMAOMIR650	Manage a crisis	
PMASUP620	Manage environmental management system	
PSPMGT003	Manage change	
PSPMGT004	Manage diversity	
Group C – Other support electives		
Unit code	Unit title	Prerequisites
MSMWHS503	Maintain WHS management system	
MSMWHS510	Manage risk	
PMAOMIR512	Establish incident response preparedness and response systems	
PMAOMIR523	Manage corporate media requirements in a crisis	
PMAOMIR575	Coordinate welfare support activities in response to an incident	
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 shut down	
PMAOPS550	Develop a colour formulation	PMAOPS350 PMAOPS450
PMAOPS560	Plan and design tailings management facilities	
PMASUP520	Review procedures to minimise environmental impact of process	
PMASUP540	Analyse equipment performance	
PMAWHS502	Contribute to safety case	
PMAWHS511	Manage emergency incidents	
Up to one (1) relevant unit may be chosen from this Training Package, other endorsed Training Packages and accredited courses where that unit is packaged in a Diploma or above.		
Group D – Other electives		
Unit code	Unit title	Prerequisites
MSL954001	Obtain representative samples in accordance with a 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 system	
MSMWHS400	Contribute to WHS management system	
MSMWHS401	Assess risk	
MSS403002A	Ensure process improvements are sustained	
MSS403011A	Facilitate implementation of competitive systems and practices	
MSS403013A	Lead team culture improvement	
MSS403030A	Improve cost factors in work practices	
MSS403040A	Facilitate and improve implementation of 5S	
MSS403041A	Facilitate breakthrough improvements	
MSS403051A	Mistake proof an operational process	
MSS404050A	Undertake process capability improvements	MSS404052A
MSS404052A	Apply statistics to operational processes	
MSS404060A	Facilitate the use of planning software systems in a work area or team	
MSS404081A	Undertake proactive maintenance analyses	
MSS404082A	Assist in implementing a proactive maintenance strategy	
MSS404052A	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	
PMAOMIR449	Monitor legal compliance obligations during incidents	
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	
PMASUP432	Coordinate pipeline projects	MSMPER300
PMASUP440	Commission/recommission plant	
PMASUP441	Decommission plant	
PMASUP444	Plan plant preparation and isolation	
PMASUP445	Participate in HAZOP studies	PMAOPS280
PMAWHS420	Develop first aid procedures and manage resources	
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 1. Supersedes and is equivalent to PMA60108 Advanced Diploma of Process Plant Technology

Links

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>