Australian Government

PMA30126 Certificate III in Process Plant Operations

Release: 1

PMA30126 Certificate III in Process Plant Operations

Modification History

Release	Comments
1	This qualification was first released in PMA Chemical, Hydrocarbons and Refining Release 3.0.

Qualification Description

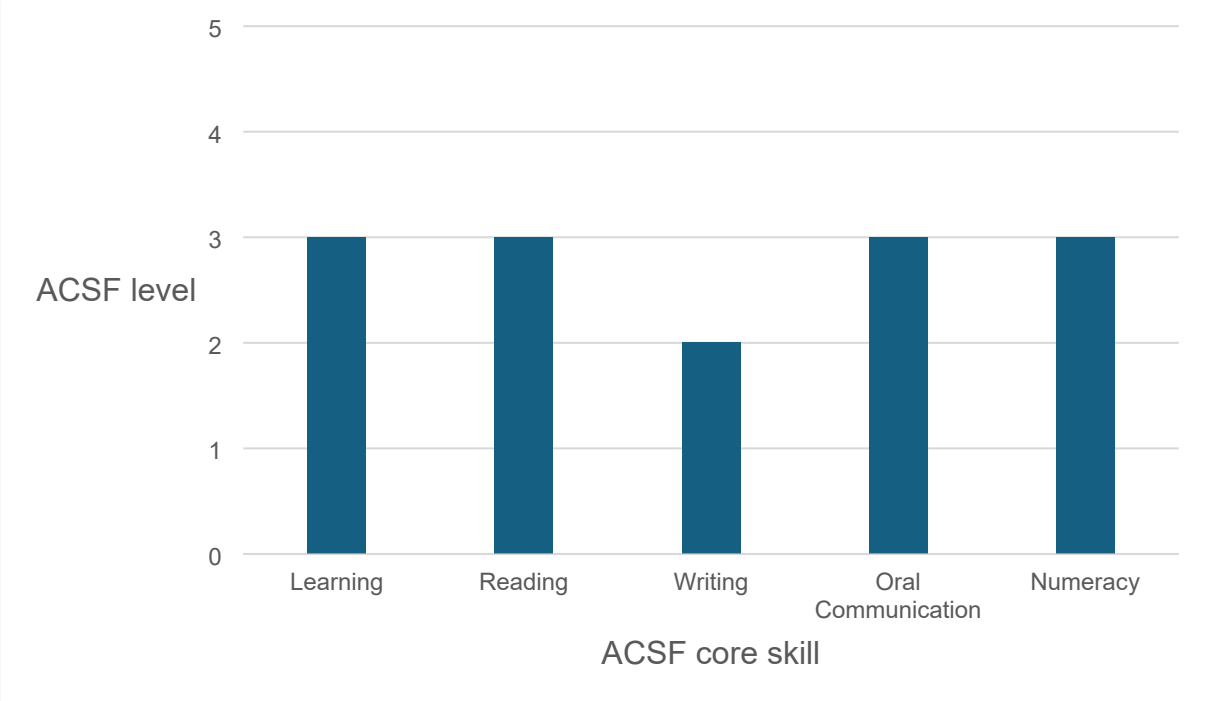
This qualification reflects the role of advanced operators and operations technicians who use production equipment to directly produce product. At this level, operators/technicians undertake advanced operations, typically of integrated plant units in accordance with the operating procedures and apply their knowledge to anticipate problems. They are expected to solve a range of foreseen and unforeseen problems, using product and process knowledge to develop solutions to problems that do not have a known solution or a solution recorded in the procedures.

Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Foundation Skills Outcomes

The foundation skills outcomes in this qualification are outlined below.



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Entry Requirements

Nil

Packaging Rules

To be awarded the PMA30126 Certificate III in Process Plant Operations, competency must be achieved in 21 units of competency:

- 5 core units
- 16 elective units, consisting of:
    - at least 14 different units, of which 8 must be PMA-coded, from the electives listed below
    - up to 2 units from any endorsed training package or accredited course – these units must be relevant to the work outcome.

Any combination of electives that meets the rules above can be selected for the award of the PMA30126 Certificate III in Process Plant Operations. Where appropriate, electives may be packaged to provide a qualification with a specialisation.

Packaging for each specialisation:

- All units in Group A and Group I electives must be selected for award of the *Certificate III in Process Plant Operations (Offshore Oil Upstream)*
- All units in Group B and Group I electives must be selected for award of the *Certificate III in Process Plant Operations (Gas/LNG Upstream)*
- All units in Group C and Group I electives must be selected for award of the *Certificate III in Process Plant Operations (Gas/LNG Downstream)*
- All units in Group D and Group I electives must be selected for award of the *Certificate III in Process Plant Operations (Utilities)*
- All units in Group E and Group I electives must be selected for award of the *Certificate III in Process Plant Operations (CSG Plant)*
- All units in Group F and Group I electives must be selected for award of the *Certificate III in Process Plant Operations (CSG Well)*
- All units in Group G and Group I electives must be selected for award of the *Certificate III in Process Plant Operations (CSG Pipelines)*
- All units in Group H and Group I electives must be selected for award of the *Certificate III in Process Plant Operations (Ammonia Production)*

Complete all 5 units from the following list:

Core Units		
Unit Code	**Unit Title**	**Prerequisites**

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MSMENV272	Participate in environmentally sustainable work practices	
MSMSUP100	Apply workplace context to own job	
MSMSUP102	Communicate in the workplace	
MSMWHS110	Follow emergency response procedures	
MSMWHS200	Work safely	
Group A electives: Offshore Oil Upstream specialisation		
Unit Code	**Unit Title**	**Prerequisites**
PMAOPS246	Operate separation equipment	
PMAOPS322	Undertake well management	
PMAOPS357	Operate and troubleshoot produced water and water injection systems	
PMAOPS363	Operate and troubleshoot export systems	
Plus		
PMAOPS336	Operate and troubleshoot fixed-bed adsorption system	
Or		
PMAOPS334	Operate and troubleshoot gas absorption system	
Group B electives: Gas/LNG Upstream specialisation		
Unit Code	**Unit Title**	**Prerequisites**
PMAOPS322	Undertake well management	

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PMAOPS363	Operate and troubleshoot export systems	
PMAOPS370	Operate and troubleshoot condensate stabilisation systems	
Plus		
PMAOPS336	Operate and troubleshoot fixed-bed adsorption system	
Or		
PMAOPS334	Operate and troubleshoot gas absorption system	
Group C electives: Gas/LNG Downstream specialisation		
Unit Code	**Unit Title**	**Prerequisites**
PMAOPS310	Operate and troubleshoot distillation system	
PMAOPS336	Operate and troubleshoot fixed-bed adsorption system	
PMAOPS341	Operate and troubleshoot cryogenic processes	
PMAOPS343	Transfer bulk fluids into/out of storage facility	
PMAOPS346	Operate and troubleshoot liquefaction process	
Group D electives: Utilities specialisation		
Unit Code	**Unit Title**	**Prerequisites**
PMAOPS204	Select and use utilities and services	
PMAOPS332	Generate electrical power	
PMAOPS349	Operate and troubleshoot hydraulic systems	

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PMAOPS352	Operate and troubleshoot instrument and plant air systems	
PMAOPS354	Operate and troubleshoot inert gas generation systems	
PMAOPS355	Operate and troubleshoot fuel systems	
PMAOPS356	Operate and troubleshoot water treatment systems	
PMAOPS367	Operate and troubleshoot cooling water systems	
PMAOPS368	Operate and troubleshoot heating medium/hot oil systems	
PMAOPS369	Operate and troubleshoot drain and vent systems	
Group E electives: CSG Plant specialisation		
Unit Code	**Unit Title**	**Prerequisites**
PMAOPS205	Operate heat exchangers	
PMAOPS223	Operate and monitor valve systems	
PMAOPS246	Operate separation equipment	
PMAOPS280	Interpret process plant schematics	
PMAOPS306	Operate and troubleshoot production unit	
PMAOPS314	Operate and troubleshoot compressor systems	
Plus		
PMAOPS201	Operate fluid flow equipment	

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Or		
PMAOPS222	Operate and monitor pumping systems and equipment	*
Group F electives: CSG Well specialisation		
Unit Code	**Unit Title**	**Prerequisites**
PMAOPS223	Operate and monitor valve systems	
PMAOPS233	Monitor wells and gathering systems	
PMAOPS280	Interpret process plant schematics	
PMAOPS318	Conduct artificial lift	
PMAOPS339	Operate and troubleshoot wells and gathering systems	
Plus		
PMAOPS201	Operate fluid flow equipment	
Or		
PMAOPS222	Operate and monitor pumping systems and equipment	*
Group G electives: CSG Pipeline specialisation		
Unit Code	**Unit Title**	**Prerequisites**
PMAOPS216	Operate local control system	
PMAOPS223	Operate and monitor valve systems	
PMAOPS230	Monitor, operate and maintain pipeline stations and equipment	

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PMAOPS280	Interpret process plant schematics	
PMAOPS338	Communicate and monitor pipeline activities	
PMAOPS342	Conduct pipeline pigging	
PMASUP241	Maintain pipeline easements	
Group H electives: Ammonia Production specialisation		
Unit Code	**Unit Title**	**Prerequisites**
PMAOPS203	Apply knowledge of ammonia safety, properties and characteristics	*
PMAOPS280	Interpret process plant schematics	
PMAOPS372	Operate and troubleshoot ammonia pumping and distribution	*
PMAOPS373	Operate and troubleshoot ammonia refrigeration and storage	*
PMAOPS374	Operate and troubleshoot hydrogen production for ammonia manufacturing	*
PMAOPS375	Operate and troubleshoot nitrogen production for ammonia manufacturing	*
PMAOPS376	Operate and troubleshoot synthesis gas compression and ammonia conversion	*
Group I electives: Tradecraft and permit to work/isolations		
Unit Code	**Unit Title**	**Prerequisites**
MSMPER201	Monitor and control work permits	

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MSMSUP240	Undertake minor maintenance	
MSMSUP303	Identify equipment faults	
MSMWHS201	Conduct hazard analysis	
PMAOPS347	Create and conduct isolations in the workplace	*
PMASUP244	Prepare and isolate plant	
Other electives		
Unit Code	**Unit Title**	**Prerequisites**
HLTAID011	Provide First Aid	
HLTAID013	Provide First Aid in remote or isolated site	
HLTAID014	Provide Advanced First Aid	
MEM07033	Operate and monitor basic boiler	*
MEM09002	Interpret technical drawing	*
MEM09003	Prepare basic engineering drawing	*
MEM11011	Undertake manual handling	*
MEM12023	Perform engineering measurements	*
MEM12024	Perform computations	*
MEM13015	Work safely and effectively in manufacturing and engineering	
MEM16006	Organise and communicate information	*

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MEM18011	Shut down and isolate machines/equipment	*
MSL952003	Collect routine site samples	
MSL973025	Perform basic tests	
MSMBLIC001	Licence to operate a standard boiler	
MSMBLIC002	Licence to operate an advanced boiler	
MSMOPS100	Use equipment	
MSMOPS200	Operate equipment	
MSMOPS212	Use organisation computers or data systems	
MSMPER200	Work in accordance with an issued permit	
MSMPER202	Observe permit work	
MSMPER205	Enter confined space	*
MSMPER300	Issue work permits	*
MSMPMC303	Operate grinding equipment	
MSMSUP101	Clean workplace or equipment	
MSMSUP106	Work in a team	
MSMSUP200	Achieve work outcomes	
MSMSUP210	Process and record information	
MSMSUP292	Sample and test materials and product	
MSMSUP300	Identify and apply process improvements	

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MSMSUP310	Contribute to the development of workplace documentation	
MSMSUP330	Develop and adjust a production schedule	
MSMSUP382	Provide coaching/mentoring in the workplace	
MSMSUP383	Facilitate a team	
MSMSUP390	Use structured problem-solving tools	
MSMWHS100	Follow WHS procedures	
MSMWHS205	Control minor incidents	
MSMWHS210	Undertake first response to non-fire incidents	
MSMWHS212	Undertake first response to fire incidents	
MSMWHS216	Operate breathing apparatus	
MSMWHS217	Gas test atmospheres	
MSMWHS218	Control the risks of falls	
MSMWHS300	Facilitate the implementation of WHS for a work group	*
MSMWHS401	Assess risk	
MSS402004	Sustain process improvements	
MSS402042	Apply 5S procedures	
MSS402054	Monitor process capability	
MSS402084	Undertake root cause analysis	

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MSS402085	Contribute to the application of a proactive maintenance strategy	
MSS402086	Use planning software systems in operations	
MSS402087	Apply cost factors to work practices	
PMAOMIR301	Undertake initial rescue	*
PMAOMIR302	Respond to a helideck incident	
PMAOMIR306	Operate control panel during an emergency	*
PMAOMIR322	Manage incident response information	
PMAOMIR323	Manage communication systems during an incident	
PMAOMIR346	Assess and secure an incident site	
PMAOPS101	Read dials and indicators	
PMAOPS105	Select and prepare materials	
PMAOPS202	Operate fluid mixing equipment	
PMAOPS208	Operate chemical separation equipment	
PMAOPS210	Operate solids handling equipment	
PMAOPS213	Package product/material	
PMAOPS217	Operate wet milling equipment	
PMAOPS220	Monitor chemical reactions in the process	

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PMAOPS221	Operate and monitor prime movers	
PMAOPS224	Provide fluids for utilities and support	
PMAOPS231	Control gas odourisation	
PMAOPS232	Operate filtration equipment	
PMAOPS234	Monitor and operate low pressure compressors	
PMAOPS236	Monitor continuous process plant	
PMAOPS240	Store fluids in bulk	
PMAOPS241	Operate Joule-Thomson effect device	
PMAOPS247	Operate powered separation equipment	
PMAOPS260	Conduct screening operations	
PMAOPS261	Operate bulk solids loading equipment	
PMAOPS262	Operate digestion equipment	
PMAOPS309	Operate solids handling/storage facility	
PMAOPS311	Operate and troubleshoot reactors and reaction equipment	
PMAOPS313	Operate and troubleshoot furnaces to induce reaction	
PMAOPS315	Operate and troubleshoot process control systems	

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PMAOPS316	Organise storage and logistics of general materials	
PMAOPS317	Undertake ship transfer operations	
PMAOPS319	Adjust batch	
PMAOPS328	Operate and troubleshoot heating furnace	
PMAOPS331	Operate and troubleshoot gas turbine system	
PMAOPS344	Operate and troubleshoot flare systems	
PMAOPS345	Operate and troubleshoot gas treatment process	
PMAOPS348	Operate safety, protection and shutdown systems	
PMAOPS351	Operate and troubleshoot turret swivel systems	
PMAOPS353	Operate and troubleshoot heating, ventilation and air conditioning systems	
PMAOPS358	Process design fundamentals	
PMAOPS359	Operate and troubleshoot process measurement and control systems	
PMAOPS390	Operate a biochemical process	
PMAOPS405	Operate complex control systems	
PMAOPS411	Manage plant shutdown and restart	
PMASMELT260	Form carbon anodes	

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PMASMELT261	Bake carbon anodes	
PMASMELT262	Clean and strip anode rods	
PMASMELT263	Spray carbon anodes	
PMASMELT264	Start up reduction cells	
PMASMELT265	Operate reduction cells	
PMASMELT266	Deliver molten metal	
PMASMELT267	Cast ingots	
PMASMELT268	Operate vertical direct casting process	
PMASMELT269	Operate cell tending equipment	
PMASMELT270	Supply product from reduction cells	
PMASUP236	Operate vehicles in the field	
PMASUP245	Break and make flanged joints using hand tools	
PMASUP246	Disconnect and reconnect non-flared tube fitting joints	
PMASUP305	Operate offshore cranes	
PMASUP311	Operate communications hub	
PMASUP345	Monitor vibration	
PMASUP348	Monitor and maintain cathodic protection systems	
PMASUP349	Monitor and control repairs and modifications on operational pipe	

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PMAWHS211	Prepare equipment for emergency response	
PMAWHS213	Undertake fire control and emergency rescue	
PMAWHS310	Investigate incidents	
PMAWHS311	Lead emergency teams	
PSPGEN114	Work effectively with diversity and inclusion	
RIIPBE203D	Conduct precipitation operations	
RIIPBE301D	Conduct calcinations activities	
RIIPBE308D	Conduct thickening and clarifying process	
RIIRIS201E	Conduct local risk control	
TAEASS311	Contribute to assessment	
TAEDEL311	Provide work skill instruction	
TLID0016	Operate a forklift	
UEPOPL004	Licence to operate a steam turbine	

Pre-requisite Requirements

Unit of competency	Pre-requisite requirement	
MEM07033 Operate and monitor basic boiler	MEM11011	Undertake manual handling
	MEM13015	Work safely and effectively in manufacturing and engineering
	MEM16006	Organise and communicate information
MEM09002 Interpret technical drawing	MEM12023	Perform engineering measurements
	MEM12024	Perform computations

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	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
MEM09003 Prepare basic engineering drawing	MEM09002 Interpret technical drawing MEM12023 Perform engineering measurements MEM12024 Perform computations MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
MEM11011 Undertake manual handling	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
MEM12023 Perform engineering measurements	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
MEM12024 Perform computations	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
MEM16006 Organise and communicate information	MEM13015 Work safely and effectively in manufacturing and engineering
MEM18011 Shut down and isolate machines/equipment	MEM11011 Undertake manual handling MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
MSMPER205 Enter confined space	MSMPER200 Work in accordance with an issued permit
MSMPER300 Issue work permits	MSMWHS201 Conduct hazard analysis

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MSMWHS300 Facilitate the implementation of WHS for a work group	MSMWHS200 Work safely
PMAOMIR301 Undertake initial rescue	MSMWHS216 Operate breathing apparatus MSMWHS217 Gas test atmospheres HLTAID011 Provide First Aid
PMAOMIR306 Operate control panel during an emergency	PMAOPS315 Operate and troubleshoot process control systems.
PMAOPS203 Apply knowledge of ammonia safety, properties and characteristics	MSMENV272 Participate in environmentally sustainable work practices MSMWHS200 Work safely
PMAOPS222 Operate and monitor pumping systems and equipment	PMAOPS221 PMAOPS221 Operate and monitor prime movers OR PMAOPS324 Operate a gas turbine
PMAOPS347 Create and conduct isolations in the workplace	PMASUP244 Prepare and isolate plant
PMAOPS372 Operate and troubleshoot ammonia pumping and distribution	PMAOPS203 Apply knowledge of ammonia safety, properties and characteristics
PMAOPS373 Operate and troubleshoot ammonia refrigeration and storage	PMAOPS203 Apply knowledge of ammonia safety, properties and characteristics
PMAOPS374 Operate and troubleshoot hydrogen production for ammonia manufacturing	PMAOPS203 Apply knowledge of ammonia safety, properties and characteristics
PMAOPS375 Operate and troubleshoot nitrogen production for ammonia manufacturing	PMAOPS203 Apply knowledge of ammonia safety, properties and characteristics
PMAOPS376 Operate and troubleshoot synthesis gas compression and ammonia conversion	PMAOPS203 Apply knowledge of ammonia safety, properties and characteristics

Mandatory Workplace Requirements

There are no mandatory workplace requirements associated with units packaged in this qualification.

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Qualification Mapping Information

Previous Code and Title	Equivalence	Comments
PMA30120 Certificate III in Process Plant Operations	Equivalent	Elective unit updated.

Links

Companion volumes, including implementation guides, are found on the national training register - https://training.gov.au/training/details/PMA.

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