

Selection of competency units for training plan
Qualification PMA40108 Certificate IV in Process Plant Technology

To be awarded a *Certificate IV in Process Plant Technology* competency must be achieved in a total of twenty-six (26) units of competency consisting of:

Core units - all five (5) core units

MSAPMOHS110A	Follow emergency response procedures
MSAPMSUP100A	Apply workplace procedures
MSAPMSUP102A	Communicate in the workplace
MSAPMSUP172A	Identify and minimise environmental hazards
MSAPMOHS200A	Work safely

Elective units – twenty one (21) elective units

The elective units must include:

- select all five units from the Core units list
- select at least one unit from Group 2
- select the balance of units (up to 20) from Groups 3A and 3B, with a maximum of 18 from Group 3B

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Five compulsory core units:			MSACMT440A	Lead 5S in a manufacturing environment	PMASUP342B	Monitor and maintain electrical systems (P)	PMAOPS335A	Conduct pipeline pigging	PMLSAMP200A	Collect routine site samples	PMAOPS230B	Monitor, operate and maintain pipeline stations and equipment	
MSAPMOHS110A	Follow emergency response procedures	✓	MSACMT441A	Facilitate continuous improvement in manufacturing	PMASUP343B	Monitor and maintain cathodic protection systems	PMAOPS340B	Operate cryogenic processes	MSACMS201A	Sustain process improvements	PMAOPS231B	Control gas odourisation	
MSAPMSUP100A	Apply workplace procedures	✓	MSACMT450A	Undertake process capability improvements	PMASUP344B	Monitor and control repairs and modifications on operational pipe	PMAOPS350B	Match and adjust colour	MSACMT230A	Apply cost factors to work practices	PMAOPS232B	Produce product by filtration	
MSAPMSUP102A	Communicate in the workplace	✓	MSACMT451A	Mistake proof a production process	PMASUP345A	Perform equipment condition monitoring	PMAOPS390B	Operate a biochemical process	MSACMT231A	Interpret product costs in terms of customer requirements	PMAOPS240B	Store liquids in bulk	
MSAPMSUP172A	Identify and minimise environmental hazards	✓	MSACMT452A	Apply statistics to processes in manufacturing	PMASUP346A	Control corrosion	FDPPHGM3B	Monitor the implementation of Good Manufacturing Practice procedures	MSACMT240A	Apply 5S procedures in a manufacturing environment	PMAOSM260B	Form carbon anodes	
MSAPMOHS200A	Work safely	✓	MSACMT460A	Facilitate the use of planning software systems in manufacturing	PMASUP347A	Undertake corrosion inspection in a petrochemical environment	MEMO7033B	Operate and monitor basic boiler	MSACMT250A	Monitor process capability	PMAOSM261B	Bake carbon anodes	
Select at least one unit from this list:			MSAENV472A	Implement and monitor environmentally sustainable work	MSAPMSUP382A	Provide coaching/mentoring in the workplace	MEMO7034A	Operate and monitor intermediate class boiler (P)	MSACMT251A	Apply quality standards	PMAOSM262B	Clean and strip anode rods	
MSAPMOP5400A	Optimise process/plant area		MSACMT481A	Undertake proactive maintenance analyses	MSAPMSUP383A	Facilitate a team	MEM18011C	Shutdown and isolate machines/equipment	MSACMT260A	Use planning software systems in manufacturing	PMAOSM263B	Spray carbon anodes	
MSAPMOP5401A	Trial new process product		MSACMT482A	Assist in implementing a proactive maintenance strategy	MSAPMSUP390A	Use structured problem solving tools	UEP0PS340A	Operate and monitor a steam turbine	MSACMT270A	Use sustainable energy practices	PMAOSM264B	Start up reduction cells	
PMAOPS402A	Respond to abnormal process situations (P)		MSAPMOP5404A	Co-ordinate maintenance	PMLTEST300B	Perform basic tests	MSAPMOHS205A	Control minor incidents	MSACMT271A	Use sustainable environmental practices	PMAOSM265B	Operate reduction cells	
PMAOPS405A	Operate complex control systems		MSAPMOP5405A	Identify problems in fluid power system	MEMO9003B	Prepare basic engineering drawing (P)	MSAPMOHS210B	Undertake first response to non-fire incidents	MSACMT280A	Undertake root cause analysis	PMAOSM266B	Deliver molten metal	
PMAOPS410B	Monitor remote production facilities		MSAPMOP5406A	Identify problems in electronic control systems	PSPGOV308B	Work effectively with diversity	PMAOHS211B	Prepare equipment for emergency response	MSACMT281A	Contribute to the application of a proactive maintenance strategy	PMAOSM267B	Cast aluminium ingots	
PMAOPS411B	Manage plant shutdown and restart		TAAAS5401A	Plan and organise assessment	PUAFIR306A	Render hazardous materials safe	MSAPMOHS212A	Undertake first response to fire incidents	MNMC205A	Conduct Lock Risk Assessment	PMAOSM268B	Vertical direct casting	
PMAOPS450B	Solve colour problems		TAAAS5402A	Assess competence	PUASAR003A	Undertake technical rescue	PMAOHS213B	Undertake fire control and emergency rescue	MNMG237A	Work safely at heights	PMAOSM269A	Operate cell tending equipment	
Select the balance of units (up to 20) from Groups 3A and 3B below, with a maximum of 18 from Group 3B.			TAAAS5404A	Participate in assessment validation (partial equivalence)	PUASAR004A	Undertake vertical rescue	PMAOHS214B	Undertake helicopter safety and escape	MSAENV272A	Participate in environmentally sustainable work practices	PMAOSM270A	Supply product from reduction cells	
Group 3A			Group 3B			PUASAR005A	Undertake Confined Space Rescue	PMAOHS215B	Apply offshore facility abandonment and sea survival procedures	MEMO5012C	Perform routine manual metal arc welding	PMAOPS280A	Supply product from reduction cells
MSAPMOHS400A	Contribute to workplace OHS management system		MSAPMOHS300A	Facilitate the implementation of OHS for a work group	TAAAS301A	Contribute to assessment	MSAPMOHS216A	Operate breathing apparatus	MEMO9002B	Interpret technical drawing	PMAOPS290B	Operate a biotreater	
MSAPMOHS401A	Assess risk		PMAOHS310B	Investigate incidents	TAADEL301A	Provide training through instruction and demonstration of work skills	MSAPMOHS217A	Gas test atmospheres	MEM16005A	Operate as a team member to conduct manufacturing,	FDPPHGM2A	Implement Good Manufacturing Practice procedures	
PMAOHS420B	Audit incident preparedness and established response system		PMAOHS311B	Lead emergency teams	PMAOPS300B	Operate a production unit	MSAPMOHS220A	Provide initial First Aid response	TLID1007C	Operate a forklift	UEP0PS319A	Operate and monitor gas production plant	
PMAOIR407B	Develop and maintain community relationships		PMAOHS312B	Command the operation of survival craft (P)	PMAOPS301B	Produce product by distillation (P)	PMAOHS221B	Maintain First Aid supplies and records	MSAPMOP5200A	Operate equipment	MSAPMOHS100A	Follow OHS procedures	
PMAOIR418B	Coordinate incident response		PMAOHS320C	Provide advanced First Aid response (P)	PMAOPS302B	Operate reactors and reaction equipment	PMAOIR210A	Control evacuation to muster point	PMAOPS201B	Operate fluid flow equipment	MSAPMSUP101A	Clean workplace or equipment	
PMAOIR424B	Develop and maintain community relationships		PMAOHS321B	Provide First Aid response in remote and/or isolated area (P)	PMAOPS303B	Operate furnaces to induce reaction	MSAPMPER200B	Work in accordance with an issued permit	PMAOPS202B	Operate fluid mixing equipment	MSAPMSUP106A	Work in a team	
PMAOIR430B	Conduct and assess incident exercises		PMAOIR301B	Undertake initial rescue (P)	PMAOPS304B	Operate and monitor compressor systems and equipment (P)	MSAPMPER201A	Monitor and control work permits	PMAOPS203B	Handle goods	MEM11011B	Undertake manual handling	
PMAOIR444B	Develop incident containment tactics		PMAOIR302B	Respond to a helideck incident	PMAOPS305B	Operate process control systems	MSAPMPER202A	Observe permit work	PMAOPS204B	Use utilities and services	MSAPMOP5100A	Use equipment	
PMAOIR449B	Monitor legal compliance obligations during incidents		PMAOIR317B	Facilitate search and rescue operations	PMAOPS307B	Transfer bulk fluids into/out of storage facility (P)	MSAPMPER205B	Enter confined space	PMAOPS205B	Operate heat exchangers	PMAOPS101C	Read dials and indicators	
MSAPMPER400A	Coordinate permit process		PMAOIR320B	Manage incident response information	PMAOPS308B	Organise storage and logistics of general materials	MSAPMSUP200A	Achieve work outcomes	PMAOPS207B	Operate powered separation equipment	MSAPMOP5102A	Perform tasks to support production	
MSAPMSUP400A	Develop and monitor quality systems		PMAOIR321B	Manage communication systems during an incident	PMAOPS309B	Operate particulates handling/storage equipment	MSAPMSUP201A	Pack products or materials	PMAOPS208B	Operate chemical separation equipment	PMAOPS105C	Select and prepare materials	
PMASUP410A	Develop plant documentation		PMAOIR346B	Assess and secure an incident site	PMAOPS312B	Undertake ship loading/unloading operations	MSAPMSUP205A	Transfer loads	PMAOPS210B	Operate particulates handling equipment	FDPPHGM1A	Follow work procedures to maintain Good Manufacturing Practice	
PMASUP420B	Minimise environmental impact of process		MSAPMPER300B	Issue work permits (P)	PMAOPS319A	Adjust batch	MSAPMSUP210A	Process and record information	PMAOPS211B	Operate manufacturing extruders			
PMASUP432B	Coordinate pipeline projects		MSAPMSUP300A	Identify and implement opportunities to maximise production efficiencies	PMAOPS320B	Conduct artificial lift	PMASUP236B	Operate vehicles in the field	MSAPMOP5212A	Use enterprise computers or data systems			
PMASUP440B	Commission/recommission plant		MSAPMSUP301A	Apply HACCP to the workplace	PMAOPS321B	Undertake well management	PMASUP237B	Undertake crane, dogging and load transfer operations	PMAOPS213B	Package product/ material			
PMASUP441C	Decommission plant		MSAPMSUP303A	Identify equipment faults	PMAOPS323A	Operate and monitor heating furnace	MSAPMSUP240A	Undertake minor maintenance	PMAOPS216B	Operate local control system			
PMASUP445A	Participate in HAZOP studies (P)		PMASUP305A	Operate Offshore Cranes	PMAOPS324A	Operate a gas turbine	PMASUP241B	Maintain pipeline easements	PMAOPS217B	Operate wet milling equipment	Name		
PMLSAMP400B	Obtain representative samples in accordance with a sampling plan		MSAPMSUP309A	Maintain and organise workplace records	PMAOPS325B	Generate electrical power	PMASUP242B	Monitor pipeline civil works	PMAOPS220B	Monitor chemical reactions in the process	Return to:	Alan Bartlett Consulting	
MSACMS401A	Ensure process improvements are sustained		MSAPMSUP310A	Contribute to development of plant documentation	PMAOPS326B	Produce product using gas absorption	PMASUP243B	Monitor and maintain pipeline coatings	PMAOPS221B	Operate and monitor prime movers		Unit 10/121 Kerry Road	
MSACMC411A	Lead a competitive manufacturing team		PMASUP311A	Operate communications hub	PMAOPS327B	Produce product using fixed bed dehydration	MSAPMSUP280A	Manage conflict at work	PMAOPS222B	Operate and monitor pumping systems and equipment (P)		Archerfield 4108	
MSACMC413A	Lead team culture improvement		MSAPMSUP330A	Develop and adjust a production schedule	PMAOPS329B	Produce product using liquid extraction	MSAPMSUP291A	Participate in continuous improvement	PMAOPS223B	Operate and monitor valve systems	Fax:	07 3277 5287	
MSACMT430A	Improve cost factors in work practices		PMASUP341B	Monitor and maintain instrument and control systems (P)	PMAOPS330B	Communicate pipeline control centre operations	MSAPMSUP292A	Sample and test materials and product	PMAOPS224B	Provide fluids for utilities and support	Email:	eddie@abconsulting.edu.au	