

**Selection of competency units for training plan
Qualification PMC40110 Certificate IV in Manufactured Mineral Products**

To be awarded a *Certificate IV in Manufactured Mineral Products*, competency must be achieved in a total of twenty-four **(24) units of competency** consisting of:

- **seven (7)** core units of competency
- **seventeen (17)** elective units of competency from Groups A and B, as specified below

Core Units

Select **seven (7) units** of competency as specified below

All **six (6)** of these units must be chosen

MSAENV272B Participate in environmentally sustainable work practices MSAPMSUP101A Clean workplace or equipment MSAPMSUP100A Apply workplace procedures
MSAPMOHS200A Work safely MSAPMSUP102A Communicate in the workplace MSAPMSUP200A Achieve work outcomes

Select **one (1)** of the following units. Note that only MSAPMOPS101A **OR** PMAOPS101C may be included in this qualification, not both.

MSAPMOPS101A Make measurements PMAOPS101C Read dials and indicators

Elective units of competency

Group A – Specialist electives		MSACMT440A	Lead 5S in a manufacturing environment
A minimum of one (1) specialist elective unit must be chosen from the list below		MSACMT441A	Facilitate continuous improvement in manufacturing
MSAPMOPS400A	Optimise process/plant area <i>(Prerequisite: MSAPMSUP390A)</i>	MSACMT450A	Undertake process capability improvements <i>(Prerequisite: MSACMT452A)</i>
MSAPMOPS401A	Trial new process or product	MSACMT451A	Mistake proof a production process
MSAPMOPS404A	Coordinate maintenance	MSACMT452A	Apply statistics to processes in manufacturing
MSAPMOPS405A	Identify problems in fluid power system	MSACMT460A	Facilitate the use of planning software systems in manufacturing
MSAPMOPS406A	Identify problems in electronic control systems	<i>(Prerequisite: MSACMT260A)</i>	
PMAOPS402A	Respond to abnormal process situations <i>(Prerequisite: MSAPMSUP390A)</i>	MSACMT481A	Undertake proactive maintenance analyses
PMAOPS405A	Operate complex control systems	MSACMT482A	Assist in implementing a proactive maintenance strategy
PMC554020D	Design and prepare models, moulds and dies	MSAENV472B	Implement and monitor environmentally sustainable work practices
PMC554090B	Undertake simple refractory design	MSAPMOHS400A	Contribute to OHS management system
PMC554091B	Analyse refractory failures	<i>(Prerequisites: MSAPMOHS300A, MSAPMOHS200A)</i>	
Group B - Other electives		MSAPMOHS401A	Assess risk
The balance of units, to a maximum of sixteen (16) , may be drawn in any combination from:		MSAPMPER400A	Coordinate permit process <i>(Prerequisites: MSAPMPER300B, RIIRIS201A)</i>
• units not already chosen from Group A above		PMASUP420B	Minimise environmental impact of process
• Group B units listed below, with a maximum of thirteen (13) from Group B'2'		PSPPM402B	Manage simple projects
Group B'1'		TAAASS401C	Plan and organise assessment
MSACMC411A	Lead a competitive manufacturing team	TAAASS402C	Assess competence
MSACMC413A	Lead team culture improvement	TAAASS403B	Develop assessment tools
MSACMS401A	Ensure process improvements are sustained	TAAASS404B	Participate in assessment validation
MSACMT430A	Improve cost factors in work practices	Up to two (2) relevant units may be chosen from this Training Package, other endorsed Training Packages and accredited courses where those units are available at Certificate IV or Diploma.	

• a maximum of thirteen (13) units can be chosen from Group B'2'		MSAPMSUP303A	Identify equipment faults
Group B'2'		MSAPMSUP310A	Contribute to development of plant documentation
MEM09002B	Interpret technical drawing	MSAPMSUP330A	Develop and adjust a production schedule
RIIRIS201A	Conduct local risk control	MSAPMSUP382A	Provide coaching/mentoring in the workplace
MSACMT230A	Apply cost factors to work practices	MSAPMSUP390A	Use structured problem solving tools
MSACMT231A	Interpret product costs in term of customer requirements	MSL952001A	Collect routine site samples
MSACMT240A	Apply 5S procedures in a manufacturing environment	MSL973001A	Perform basic tests
MSACMT250A	Monitor process capability	MSL974005A	Perform physical tests
MSACMT251A	Participate in environmentally sustainable work practices	PMAOPS105C	Select and prepare materials
MSACMT260A	Work safely	PMAOPS216B	Operate local control system
MSACMT270A	Use sustainable energy practices	PMAOPS305B	Operate process control systems
MSACMT271A	Use sustainable environmental practices	PMBHAN103C	Shift materials safely by hand
MSACMT280A	Undertake root cause analysis	PMC552002C	Operate equipment to blend/mix materials
MSACMT281A	Contribute to the application of a proactive maintenance strategy	PMC552003C	Operate grinding equipment
MSAPMOHS110A	Follow emergency response procedures	PMC552004C	Prepare for production
MSAPMOHS300A	Facilitate the implementation of OHS for a work group	PMC552005C	Process greenware/green products
<i>(Prerequisite: MSAPMOHS200A)</i>		PMC552006C	Operate an autoclave
MSAPMOPS100A	Use equipment	PMC552007B	Heat accelerate the curing of precast concrete
MSAPMOPS200A	Operate equipment	PMC552008B	Operate crushing equipment
MSAPMOPS212A	Use enterprise computers or data systems	PMC552010C	Operate a calcining kiln
MSAPMPER200B	Work in accordance with an issued permit	PMC552020C	Operate slip casting equipment
MSAPMPER201A	Monitor and control work permits	PMC552021C	Operate manual glazing equipment
MSAPMPER202A	Observe permit work	PMC552022C	Prepare materials for clay and ceramic production
MSAPMPER205B	Enter confined space	PMC552023C	Finish products after firing
MSAPMPER300B	Issue work permits <i>(Prerequisite: RIIRIS201A)</i>	PMC552024C	Hand mould products
MSAPMSUP106A	Work in a team	PMC552030C	Operate a firing kiln
MSAPMSUP201A	Receive or despatch goods	PMC552031C	Operate extrusion equipment
MSAPMSUP210A	Process and record information	PMC552032C	Operate pressing equipment
MSAPMSUP230A	Monitor process operations	PMC552040C	Operate glass melting process
MSAPMSUP240A	Undertake minor maintenance	PMC552041C	Operate process ovens
MSAPMSUP280A	Manage conflict at work	PMC552042C	Operate blown insulation equipment
MSAPMSUP292A	Sample and test materials and product	PMC552043C	Operate float forming equipment
MSAPMSUP300A	Identify and implement opportunities to maximise production	PMC552044C	Operate fibre forming equipment
	efficiencies <i>(Prerequisite: MSAPMSUP200A)</i>	PMC552045C	Operate container forming equipment

PMC552046C	Operate glass printing equipment	PMC553070B	Design and construct moulds for fibrous plaster products
PMC552047C	Operate primary annealing equipment	<i>(Prerequisite: PMC552024C)</i>	
PMC552048C	Operate glass finishing equipment	PMC553072B	Model fibrous plaster products
PMC552049C	Operate on-line stacking and assembly equipment	PMC553080B	Set up and optimise finishing process
PMC552050C	Schedule, cut and bend reinforcement	PMC561072C	Store materials for production
PMC552051C	Participate in environmentally sustainable work practices	PMC561080B	Organise self
PMC552052C	Work safely	PMC562070B	Move materials
PMC552053C	Finish cured concrete products	PMC562071C	Operate bulk materials handling equipment
PMC552054C	Spin concrete pipes	PMC562075B	Maintain kiln refractory
PMC552055C	Conduct benching operations	PMC562081B	Deliver customer service
PMC552056B	Assemble, fabricate and place reinforcement	PMC562083C	Allocate and complete team tasks
PMC552057B	Finish casting operation	PMC563081C	Carry out stock control
PMC552058B	Demould concrete products	TAAASS301B	Contribute to assessment
PMC552060C	Batch mix concrete	TAADL301C	Provide training through instruction and demonstration of work skills
PMC552061C	Deliver concrete to site	TLI307C	Drive medium rigid vehicle
PMC552065B	Prepare asphalt	TLIC407D	Drive heavy rigid vehicle
PMC552070B	Operate forming equipment	TLID1007C	Operate a forklift
PMC552071B	Operate wet and dry end equipment	<p>Note: Only one of TLIC307C or TLIC407D may be included in this qualification, not both. Up to six (6) relevant units may be chosen from this Training Package, other endorsed Training Packages and accredited courses, where those units are available at Certificate II, III, IV or Diploma.</p> <p>Name:</p> <p>Return to: Alan Bartlett Consulting</p> <p>Unit 10/121 Kerry Road Archerfield 4108</p> <p>Fax: 07 3277 5287</p> <p>Email:@abconsulting.edu.au</p>	
PMC552072B	Produce fibrous plasterboard		
PMC552090B	Use and maintain tools and equipment for refractory operations		
PMC552091B	Prepare for, install and repair refractory brickwork/blockwork		
PMC552092B	Prepare for and install mouldable refractory materials		
PMC552093B	Prepare for and cast refractory materials		
PMC552094B	Prepare for and apply shotcrete for installation		
PMC552095B	Prepare for, install and repair ceramic fibre		
PMC553000C	Set up and tune a process		
PMC553010C	Process raw meal into product <i>(Prerequisite: PMC552010C)</i>		
PMC553020C	Prepare moulds and dies		
PMC553021C	Set up and tune glazing equipment		
PMC553040C	Set up and optimise glass forming process		
PMC553041C	Set up and optimise glass furnace process		
PMC553042C	Set up and optimise secondary process		
PMC553050C	Produce architectural precast concrete		
PMC553051B	Produce structural precast concrete		