



Australian Government

PMC20116 Certificate II in Manufactured Mineral Products

Release 1

PMC20116 Certificate II in Manufactured Mineral Products

Modification History

Release 1. Supersedes and is equivalent to PMC20110 Certificate II in Manufactured Mineral Products.

Qualification Description

The PMC20116 Certificate II in Manufactured Mineral Products covers the skills and knowledge required to perform a range of process operations within the manufactured mineral products industries.

The qualification is suitable to prepare new employees and to develop existing workers to perform an operational role to directly produce product.

The operator will be able to operate production equipment within defined specifications and procedures and carry out a range of support functions. The operator will be able to apply technical and procedural knowledge to a defined range of situations and activities.

The operator will be able to solve predictable problems by applying known solutions and will report non-routine problems to appropriate personnel.

The qualification provides the skills and knowledge relevant to the following sectors:

- cement
- precast concrete products
- premixed concrete
- clay products
- ceramic products
- float (flat) glass
- glass containers
- refractories
- plaster (both fibrous plaster and plaster boards)
- fibre cement boards and other products
- ground minerals
- abrasive grinding wheels and cutting discs.

For job roles at Certificate I level see MSM10116 Certificate I in Process Manufacturing.

For people who do not directly produce product but work in production support roles see MSM20116 Certificate II in Process Manufacturing.

For people who require a more generalist qualification covering the application of good manufacturing practice and lean principles see MSS20316 Certificate II in Competitive Systems and Practices.

The PMC20116 Certificate II in Manufactured Mineral Products contains units of competency that can be credited towards other manufacturing qualifications such as:

- PMC30116 Certificate III in Manufactured Mineral Products
- MSM30116 Certificate III in Process Manufacturing
- MSS30316 Certificate III in Competitive Systems and Practices

There are no specific licenses that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements in some jurisdictions. Local regulations should be checked for details.

Entry Requirements

There are no entry requirements for this qualification.

Packaging Rules

To be awarded the PMC20116 Certificate II in Manufactured Mineral Products competency must be achieved in **fifteen (15)** units of competency:

- **six (6)** core units of competency
- **nine (9)** elective units of competency from Groups A and B, as specified below.
 - **A minimum of two (2)** specialist elective units must be chosen from Group A; up to **one (1)** specialist elective unit may be chosen from Group A of PMC30116 Certificate III in Manufactured Mineral Products
 - The balance of units, to a maximum of **seven (7)**, may be chosen from Group A or Group B to bring the total number of electives to **fifteen (15)**.

Up to **four (4)** of the elective units of competency can be selected from this Training Package; other endorsed Training Packages and accredited courses, where those units are available at Certificate II or III.

Note: Where prerequisite units apply, these must be counted in the total number of units required for achievement of the qualification.

Core units of competency

Unit code	Unit title	
MSMENV272	Participate in environmentally sustainable work practices	
MSMWHS200	Work safely	
MSMSUP100	Apply workplace procedures	
MSMSUP101	Clean workplace or equipment	
MSMSUP102	Communicate in the workplace	
Select one (1) of the following units. Note that only MSMOPS101 OR PMAOPS101 may be included in this qualification, not both.		
Unit code	Unit title	Prerequisites
MSMOPS101	Make measurements	
PMAOPS101	Read dials and indicators	

Elective units of competency**Group A - Specialist electives**

Unit code	Unit title	Prerequisites
MSMOPS200	Operate equipment	
MSMOPS212	Use enterprise computers or data systems	
MSMSUP230	Monitor process operations	
PMAOPS216	Operate local control system	
PMC552002	Operate equipment to blend/mix materials	
PMC552003	Operate grinding equipment	
PMC552004	Prepare for production	
PMC552005	Process greenware/green products	
PMC552006	Operate an autoclave	
PMC552007	Heat accelerate the curing of precast concrete	
PMC552008	Operate crushing equipment	
PMC552010	Operate a calcining kiln	
PMC552020	Operate slip casting equipment	
PMC552021	Operate manual glazing equipment	
PMC552022	Prepare materials for clay and ceramic production	
PMC552023	Finish products after firing	
PMC552024	Hand mould products	
PMC552030	Operate a firing kiln	
PMC552031	Operate extrusion equipment	
PMC552032	Operate pressing equipment	

PMC552040	Operate glass melting process	
PMC552041	Operate process ovens	
PMC552042	Operate blown insulation equipment	
PMC552043	Operate float forming equipment	
PMC552044	Operate fibre forming equipment	
PMC552045	Operate container forming equipment	
PMC552046	Operate glass printing equipment	
PMC552047	Operate primary annealing equipment	
PMC552048	Operate glass finishing equipment	
PMC552049	Operate on-line stacking and assembly equipment	
PMC552050	Schedule, cut and bend reinforcement	
PMC552051	Finish green concrete products	
PMC552052	Cast moulded concrete products	
PMC552053	Finish cured concrete products	
PMC552054	Spin concrete pipes	
PMC552055	Conduct benching operations	
PMC552056	Assemble, fabricate and place reinforcement	
PMC552057	Finish casting operation	
PMC552058	Demould concrete products	
PMC552060	Batch mix concrete	
PMC552061	Deliver concrete to site	
PMC552065	Prepare asphalt	
PMC552070	Operate forming equipment	
PMC552072	Produce fibrous plasterboard	
PMC552090	Use and maintain tools and equipment for	

	refractory operations	
PMC552091	Prepare for, install and repair refractory brickwork/blockwork	
PMC552092	Prepare for and install mouldable refractory materials	
PMC552093	Prepare for and cast refractory materials	
PMC552094	Prepare for and apply shotcrete for installation	
PMC552095	Prepare for, install and repair ceramic fibre	
<p>Up to one (1) specialist elective unit may be chosen from Group A of PMC30116 Certificate III in Manufactured Mineral Products.</p> <p>Group B - Other electives</p>		
Unit code	Unit title	Prerequisites
RIIRIS201D	Conduct local risk control	
MSS402030	Apply cost factors to work practices	
MSS402031	Interpret product costs in terms of customer requirements	
MSS402040	Apply 5S procedures	
MSS402050	Monitor process capability	
MSS402051	Apply quality standards	
MSS402060	Use planning software systems in operations	
MSS402080	Undertake root cause analysis	
MSS402081	Contribute to the application of a proactive maintenance strategy	
MSMWHS110	Follow emergency response procedures	
MSMOPS100	Use equipment	

MSMPER200	Work in accordance with an issued permit	
MSMPER201	Monitor and control work permits	
MSMPER202	Observe permit work	
MSMPER205	Enter confined space	
MSMSUP106	Work in a team	
MSMSUP200	Achieve work outcomes	
MSMSUP210	Process and record information	
MSMSUP240	Undertake minor maintenance	
MSMSUP280	Manage conflict at work	
MSMSUP292	Sample and test materials and product	
MSL952001	Collect routine site samples	
PMAOPS105	Select and prepare materials	
PMBHAN103	Shift materials safely by hand	
PMC561072	Store materials for production	
PMC561080	Organise self	
PMC562070	Move materials	
PMC562071	Operate bulk materials handling equipment	
PMC562081	Deliver customer service	
PMC562083	Allocate and complete team tasks	
TLIC3003	Drive medium rigid vehicle	
TLIC3004	Drive heavy rigid vehicle	
TLID2010	Operate a forklift	

Note: Only **one** of TLIC3003 **or** TLIC3004 may be included in this qualification, not both.

Up to **four (4)** relevant units may be selected from this Training Package, other endorsed

Training Packages and accredited courses, where those units are packaged in Certificates II or III.

Qualification Mapping Information

Release 1. Supersedes and is equivalent to PMC20110 Certificate II in Manufactured Mineral Products.

Links

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