

MANUFACTURED MINERAL PRODUCTS

PMC04

Version 1.2

TRAINING PACKAGE

PURCHASING GUIDE

CERTIFICATES I - IV

**Western Australian Department of Training and Workforce
Development**

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Foreword

This Purchasing Guide has been generated to enable the stakeholders in the Manufactured Mineral Products Industry in Western Australia to participate in the managed implementation of the National Manufactured Mineral Products Training Package PMC04.

The Guide has been developed with cooperation from WA Industry, Registered Training Organisations (RTOs) delivering Manufactured Mineral Products qualifications and key stakeholders in industry sectors where publicly funded training has not been apparent in the past. To achieve maximum advantage from the Guide, its implementation should occur in a planned manner.

Information within this Guide should provide guidance on how competency standards may be selected and applied to achieve suitable outcomes and qualifications, for and within an industry.

The Manufactured Mineral Products Training Package PMC04 was endorsed by Ministers for vocational education and training on 2 February 2004.

Introduction

This Guide provides information that will facilitate the implementation of the Manufactured Mineral Products Training Package PMC04 in Western Australia. This Guide is designed to aid Registered Training Organisations (RTOs) to convert from Training Package qualifications to revised Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the **endorsed components** of the Manufactured Mineral Products Training Package PMC04.

The Guide provides information on:

- Transition arrangements
- Licensing requirements (if any)
- Assessment
- Funding
- Learning resources and assessment materials
- A mapping of current publicly funded qualifications to new Training Package qualifications
- An allocation of nominal hours to units of competency and total hours for qualifications
- A mapping of current Traineeship and Apprenticeship courses to new qualifications
- A set of appropriate sample, or model, training programs at each AQF level
- An indication of availability of supporting materials for delivery of qualifications

Obtaining the Training Package

The Manufactured Mineral Products Training Package can be purchased from:

TVET Australia Product Services

Level 21

390 St Kilda Road

Melbourne VIC 3000

Telephone: (03) 9832 8188

Facsimile: (03) 9832 8199

Email: enquiries@tvetaustralia.com.au

Web: www.tvetaustralia.com.au

Information on National Training Packages is also available through the National Training Information Service (NTIS), which can be located on the Internet at:

www.ntis.gov.au

All RTOs who have Training Package qualifications on their Scope of Delivery must obtain a copy of the relevant Training Package.

An Overview of the Manufactured Mineral Products Industry

The Manufactured Mineral Products industry covers the following process manufacturing areas:

- Cement
- Ceramics
- Clay Products
- Concrete Products
- Glass
- Premixed Concrete
- Related Products
 - Asphalt
 - Plasterboard
 - Fibre Plaster Mouldings
 - Fibre Cement Sheeting
 - Refractories

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications within 12 months of the release date of the Training Package on to the National Training Information Service (NTIS) by the National Quality Council (NQC). A current accredited course, however, may be used until its accreditation expires.

Transition to New Qualifications

Students currently enrolled in a Training Package qualification in Manufactured Mineral Products PMC99 should be permitted to complete the program they enrolled in initially, unless the move to the related qualification from the PMC04 Training Package can be made without disadvantage to a student.

Funding

Some learners may only achieve a Statement of Attainment during their enrolment period with the RTO. Separate funding is not provided to assess the learner who has left his/her studies and then, at a later date, wants to complete an integrated assessment to achieve a certificate qualification. The RTO will be required to make special arrangements to issue the final qualification. This process may involve an invitation to the employer (if applicable) to participate in the assessment in the workplace.

Nominal Duration of Qualifications

The maximum nominal hours are identified for each Training Package qualification. Nominal hours may vary within a qualification depending on the units of competency selected and the delivery strategies used; however, training delivery will not be funded beyond the maximum nominal hours indicated. Nominal hours are for structured training only and include both delivery and assessment.

Definition of nominal hours (supervised)

Nominal hours are the hours of training nationally required to achieve the outcomes of the Unit of Competency. In Western Australia, nominal hours are used as a mechanism for funding allocation.

Licensing Requirements

There are currently no licensing requirements to work in the industry sectors covered by the Training Package. However, in specific instances such as when operating a forklift, equipment licences are necessary.

Version Modification History

The version details of this endorsed Training Package are in the table below. The latest information is at the top of the table.

Version	Release Date	Modification History
1.2	Updated 18 March 2010	Purchasing Guide updated to include Certificate IV in Manufactured Mineral Products
1.1	12 October 2005	<p>References to PMCOPS210B Operate a rotary kiln altered to correct title: PMCOPS210B Operate a calcining kiln</p> <p>Codes for the following 6 units have been corrected to "B" versions throughout:</p> <ul style="list-style-type: none"> ○ PMCOPS103B Operate equipment ○ PMCOPS201B Operate a unit of equipment ○ PMCOPS202B Operate equipment to blend/mix materials ○ PMCOPS203B Operate grinding equipment ○ PMCOPS204B Prepare for production ○ PMCOPS400B Optimise process operations <p>Code corrected to "A" version throughout for the following unit:</p> <ul style="list-style-type: none"> ○ PMCOPS531A Choose materials for an application <p>Code corrected to "B" version throughout for the following unit:</p> <ul style="list-style-type: none"> ○ PMCSUP381B Carry out stock control
1.0	23 January 2004	Initial release of the fully revised package replacing PMC99

Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the Manufactured Mineral Products Training Package PMC04.

National ID	Training Package Qualification Title	Maximum Nominal Hours
PMC10104	Certificate I in Manufactured Mineral Products	140
PMC20104	Certificate II in Manufactured Mineral Products	400
PMC20204	Certificate II in Production Support	400
PMC30104	Certificate III in Manufactured Mineral Products	665
PMC30204	Certificate III in Production Support	600
PMC40104	Certificate IV in Manufactured Mineral Products	885
PMC50104	Diploma of Manufactured Mineral Products	TBA
PMC60104	Advanced Diploma of Manufactured Mineral Products	TBA

Note: This Purchasing Guide addresses Certificates I – IV only.

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the Manufactured Mineral Products Training Package PMC04.

National ID	Training Package Unit Title	Maximum Nominal Hours
Operations		
PMCCOR102A	Clean plant and equipment	10
PMCOPS103B	Operate equipment	15
PMCOPS201B	Operate a unit of equipment	40
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS203B	Operate grinding equipment	40
PMCOPS204B	Prepare for production	20
PMCOPS205B	Process greenware/green products	20
PMCOPS206B	Operate an autoclave	20
PMCOPS207A	Heat accelerate the curing of precast concrete	60
PMCOPS208A	Operate crushing equipment	40
PMCOPS210B	Operate a calcining kiln	40
PMCOPS220B	Operate slip casting equipment	30
PMCOPS221B	Operate manual glazing equipment	30
PMCOPS222B	Prepare materials for clay and ceramic production	30
PMCOPS223B	Finish products after firing	20
PMCOPS224B	Hand mould products	30
PMCOPS230B	Operate a firing kiln	30
PMCOPS231B	Operate extrusion equipment	30
PMCOPS232B	Operate pressing equipment	30
PMCOPS240B	Operate melting process	50
PMCOPS241B	Operate process ovens	40
PMCOPS242B	Operate blown insulation equipment	50
PMCOPS243B	Operate float forming equipment	50
PMCOPS244B	Operate fibre forming equipment	50
PMCOPS245B	Operate container forming equipment	40
PMCOPS246B	Operate glass printing equipment	40
PMCOPS247B	Operate primary annealing equipment	50
PMCOPS248B	Operate glass finishing equipment	40
PMCOPS249B	Operate on-line stacking and assembly equipment	40
PMCOPS250B	Schedule, cut and bend reinforcement	40
PMCOPS251B	Finish green concrete products	40
PMCOPS252B	Cast moulded concrete products	40
PMCOPS253B	Finish cured concrete products	40
PMCOPS254B	Spin concrete pipes	40
PMCOPS255B	Conduct benching operations	40
PMCOPS256A	Assemble, fabricate and place reinforcement	30
PMCOPS257A	Finish casting operation	20
PMCOPS258A	Demould concrete products	20
PMCOPS260B	Batch mix concrete	30
PMCOPS261B	Deliver concrete to site	30
PMCOPS265A	Prepare asphalt	40
PMCOPS270A	Operate forming equipment	40
PMCOPS271A	Operate wet and dry end equipment	50
PMCOPS272A	Produce fibrous plasterboard	30
PMCOPS290A	Use and maintain tools and equipment for refractory operations	30
PMCOPS291A	Prepare for, install and repair refractory brickwork/blockwork	40
PMCOPS292A	Prepare for and install mouldable refractory materials	40
PMCOPS293A	Prepare for and cast refractory materials	40
PMCOPS294A	Prepare for and apply shotcrete for installation	40

National ID	Training Package Unit Title	Maximum Nominal Hours
PMCOPS295A	Prepare for, install and repair ceramic fibre	40
PMCOPS300B	Set up and tune a process	40
PMCOPS301B	Operate centralised process control systems	60
PMCOPS310B	Process raw meal into product	50
PMCOPS320B	Prepare moulds and dies	40
PMCOPS321B	Set up and tune glazing equipment	50
PMCOPS340B	Set up and optimise glass forming process	80
PMCOPS341B	Set up and optimise glass furnace process	80
PMCOPS342A	Set up and optimise secondary process	40
PMCOPS350B	Produce architectural precast concrete	50
PMCOPS351A	Produce structural precast concrete	60
PMCOPS370A	Design and construct moulds for fibrous plaster products	40
PMCOPS372A	Model fibrous plaster products	60
PMCOPS380A	Set up and optimise finishing process	30
PMCOPS390A	Test refractory materials	60
PMCOPS400B	Optimise process systems	80
PMCOPS420C	Design and prepare models, moulds and dies	40
PMCOPS490A	Undertake simple refractory design	40
PMCOPS491A	Analyse refractory failures	30
PMCOPS530B	Analyse equipment performance	50
PMCOPS531A	Choose materials for an application	50
PMCOPS630B	Develop a new product	60
PMCOPS631B	Design structural/mechanical components	60
LMTEMGN06A	Design equipment and system modifications	100
PMAOPS101B	Read dials and indicators	15
PMAOPS105B	Select and prepare materials	15
PMAOPS212A	Use enterprise data system	20
PMAOPS216A	Operate local control system	40
PMAOPS401B	Trial new process/product	40
PMAOPS511A	Determine energy transfer loads	40
PMAOPS512A	Determine mass transfer loads	40
PMAOPS520B	Manage utilities	50
PMAOPS521B	Plan plant shut down	50
PMAOPS600B	Modify plant	60
PMAPROC101B	Make measurements	15
PMBPREP508A	Produce drawings	140
PMBPROD230B	Monitor process operations	26
PMBTECH502B	Review and analyse production trials and specify retrials	50
Support Units		
PMCSUP170B	Shift materials safely	20
PMCSUP171B	Pack finished products	20
PMCSUP172B	Store materials for production	15
PMCSUP180A	Organise self	15
PMCSUP181A	Work in a team	20
PMCSUP270A	Move materials	40
PMCSUP271B	Operate bulk materials handling equipment	40
PMCSUP272A	Identify and act upon hazards in the workplace	20
PMCSUP273A	Receive and despatch materials	20
PMCSUP274B	Undertake minor maintenance	20
PMCSUP275A	Maintain kiln refractory	20
PMCSUP280A	Manage conflict at work	15
PMCSUP281A	Deliver customer service	20
PMCSUP282A	Use computers and related programs in the workplace	35
PMCSUP283B	Allocate and complete team tasks	20
PMCSUP292A	Sample and test materials and product	20
PMCSUP380B	Oversee team performance	20
PMCSUP381B	Carry out stock control	20
PMCSUP382A	Provide coaching/mentoring in the workplace	40

National ID	Training Package Unit Title	Maximum Nominal Hours
PMCSUP391A	Collect and prepare standard samples	35
PMCSUP392A	Perform basic laboratory tests	35
PMCSUP393A	Perform instrumental analysis	35
BSBCMN402A	Develop work priorities	30
BSBCMN404A	Develop teams and individuals	40
BSBCMN410A	Coordinate implementation of customer service strategies	30
BSBCMN412A	Promote innovation and change	30
BSBFLM402A	Show leadership in the workplace	50
BSBFLM403A	Manage effective workplace relationships	50
BSBFLM404A	Lead work teams	50
BSBFLM405A	Implement operational plan	50
BSBFLM406A	Implement workplace information system	50
BSBFLM409A	Implement continuous improvement	50
BSBFLM504A	Facilitate work teams	40
BSBFLM505A	Manage operational plan	60
BSBFLM509A	Promote continuous improvement	60
BSBFLM510A	Facilitate and capitalise on change and innovation	60
BSBFLM511A	Develop a workplace learning environment	60
BSZ401A	Plan assessment	15
BSZ402A	Conduct assessment	15
BSZ403A	Review assessment	5
BSZ404A	Train small groups	30
LMTEMGN07A	Manage installation and commissioning of equipment and systems	80
LMTPDHL06A	Manage product development projects	100
PMACOM300A	Contribute to the development of plant documentation	30
PMAOHS100B	Follow OHS procedures	20
PMAOHS110B	Respond to emergency situation	20
PMAOHS200B	Participate in workplace OHS procedures	20
PMAOHS300B	Implement and monitor OHS policies and procedures for a work group	40
PMAOHS400B	Contribute to workplace OHS management system	30
PMAOHS401B	Assess risk	40
PMAOHS503A	Maintain the workplace OHS management system	40
PMAOHS510B	Manage risk	50
PMAOHS601A	Establish workplace OHS management system	50
PMAPER200C	Work in accordance with an issued permit	10
PMAPER201C	Monitor and control work permits	20
PMAPER205B	Enter confined space	20
PMAPER300C	Issue work permits	10
PMAPER302B	Issue work permits (hot work/confined space)	25
PMASUP100B	Apply workplace procedures	20
PMASUP110A	Relay and respond to information	20
PMASUP120A	Follow environmental work practices	20
PMASUP130B	Follow established work plan	10
PMASUP200B	Implement production efficiencies	20
PMASUP210A	Process and record information	20
PMASUP220A	Monitor and control environmental hazards	20
PMASUP300B	Identify and implement opportunities to maximise production efficiencies	40
PMASUP320A	Implement and monitor environmental policies	40
PMASUP330B	Schedule production	20
PMASUP390A	Use structured problem solving tools	20
PMASUP420A	Minimise environmental impact of process	40
PMASUP520A	Review procedures to minimise environmental impact of process	40
PMASUP620A	Manage environmental management system	60
PSPPM502A	Manage projects	60

National ID	Training Package Unit Title	Maximum Nominal Hours
TDTC497C	Drive heavy rigid vehicle	40
TDTD1097B	Operate a forklift	40

Qualifications which are replaced by qualifications in the Manufactured Mineral Products Training Package PMC04

The following table provides an overview of the qualifications in the Manufactured Mineral Products Training Package PMC99 which are replaced by the Manufactured Mineral Products Training Package PMC04.

Manufactured Mineral Products PMC99 Current Qualification			Manufactured Mineral Products PMC04 Replacement Qualification		
National ID	Qualification Title	Hrs	National ID	Qualification Title	Hrs
PMC10199	Certificate I in Manufactured Mineral Products	140	PMC10104	Certificate I in Manufactured Mineral Products	140
PMC20199	Certificate II in Manufactured Mineral Products	400	PMC20104	Certificate II in Manufactured Mineral Products	400
PMC30199	Certificate III in Manufactured Mineral Products	665	PMC30104	Certificate III in Manufactured Mineral Products	665
New qualification			PMC20204	Certificate II in Production Support	400
New qualification			PMC30204	Certificate III in Production Support	600
PMC40199	Certificate IV in Manufactured Mineral Products	885	PMC40104	Certificate IV in Manufactured Mineral Products	885

Alignment between PMC04 Units of Competency and PMC99 Units of Competency for Manufactured Mineral Products Training Package

PMC04 Unit Code	Unit Title	Hrs	PMC99 Unit Code	Unit Title	Comment
PMCCOR102A	Clean plant and equipment	10	PMCCOR102A	Clean plant and equipment	Equivalent
PMCOPS103B	Operate equipment	15	PMCOPS103A	Operate equipment	Equivalent
PMCOPS201B	Operate a unit of equipment	40	PMCOPS201A	Operate a unit of equipment	Equivalent
PMCOPS202B	Operate equipment to blend/mix materials	40	PMCOPS202A	Operate Equipment to Blend/mix Materials	Equivalent
PMCOPS203B	Operate grinding equipment	40	PMCOPS203A	Operate grinding equipment	Equivalent
PMCOPS204B	Prepare for production	20	PMCOPS204A	Prepare for production	Equivalent
PMCOPS205B	Process Greenware/green products	20	PMCOPS205A	Process Greenware/green Products	Equivalent
PMCOPS206B	Operate an autoclave	20	PMCOPS206A	Operate an autoclave	Equivalent
PMCOPS207A	Heat accelerate the curing of precast concrete	60			New to PMC04
PMCOPS208A	Operate crushing equipment	40			New to PMC04
PMCOPS210B	Operate a calcining kiln	40	PMCOPS210A	Operate a calcining kiln	Equivalent
PMCOPS220B	Operate slip casting equipment	30	PMCOPS220A	Operate slip casting equipment	Equivalent
PMCOPS221B	Operate manual glazing equipment	30	PMCOPS221A	Operate manual glazing equipment	Equivalent
PMCOPS222B	Prepare materials for clay and ceramic production	30	PMCOPS222A	Prepare Raw Materials for Clay and Ceramic Production	Equivalent
PMCOPS223B	Finish products after firing	20	PMCOPS223A	Finish products after firing	Equivalent
PMCOPS224B	Hand mould products	30	PMCOPS224A	Hand mould ceramics	Equivalent although broadened in range
PMCOPS230B	Operate a firing kiln	30	PMCOPS230A	Operate a firing kiln	Equivalent
PMCOPS231B	Operate extrusion equipment	30	PMCOPS231A	Operate extrusion equipment	Equivalent
PMCOPS232B	Operate pressing equipment	30	PMCOPS232A	Operate pressing equipment	Equivalent
PMCOPS240B	Operate melting process	50	PMCOPS240A	Operate melting process	Equivalent
PMCOPS241B	Operate process ovens	40	PMCOPS241A	Operate process ovens	Equivalent
PMCOPS242B	Operate blown insulation equipment	50	PMCOPS242A	Operate blown insulation equipment	Equivalent
PMCOPS243B	Operate float forming equipment	50	PMCOPS243A	Operate float forming equipment	Equivalent
PMCOPS244B	Operate fibre forming equipment	50	PMCOPS244A	Operate fibre forming equipment	Equivalent
PMCOPS245B	Operate container forming equipment	40	PMCOPS245A	Operate container forming equipment	Equivalent
PMCOPS246B	Operate glass printing equipment	40	PMCOPS246A	Operate printing and edgework equipment	Equivalent
PMCOPS247B	Operate primary annealing equipment	50	PMCOPS247A	Operate primary annealing equipment	Equivalent
PMCOPS248B	Operate glass finishing equipment	40	PMCOPS248A	Operate glass finishing equipment	Equivalent
PMCOPS249B	Operate on-line stacking and assembly equipment	40	PMCOPS249A	Operate flat glass processing equipment	Equivalent

PMC04 Unit Code	Unit Title	Hrs	PMC99 Unit Code	Unit Title	Comment
PMCOPS250B	Schedule, cut and bend reinforcement	40			Part of PMCOPS252A. The other part is PMCOPS256A
PMCOPS251B	Finish green concrete products	40	PMCOPS251A	Finish green concrete products	Equivalent
PMCOPS252B	Cast moulded concrete products	40			Part of PMCOPS252A. Other parts are PMCOPS257A and PMCOPS258A
PMCOPS253B	Finish cured concrete products	40	PMCOPS253A	Finish cured concrete products	Equivalent
PMCOPS254B	Spin concrete pipes	40	PMCOPS254A	Spin concrete pipes	Equivalent
PMCOPS255B	Conduct benching operations	40	PMCOPS255A	Conduct benching operations	Equivalent
PMCOPS256A	Assemble, fabricate and place reinforcement	30			Part of PMCOPS250A. The other part is PMCOPS250B
PMCOPS257A	Finish casting operation	20			Part of PMCOPS252A. Other parts are PMCOPS252B and PMCOPS258A.
PMCOPS258A	Demould concrete products	20			Part of PMCOPS252A. Other parts are PMCOPS257A and PMCOPS252B
PMCOPS260B	Batch mix concrete	30	PMCOPS260A	Batch mix concrete	Equivalent
PMCOPS261B	Deliver concrete to site	30	PMCOPS261A	Deliver concrete to site	Equivalent
PMCOPS265A	Prepare asphalt	40			New to PMC04
PMCOPS270A	Operate forming equipment	40			New to PMC04
PMCOPS271A	Operate wet and dry end equipment	50			New to PMC04
PMCOPS272A	Produce fibrous plasterboard	30			New to PMC04
PMCOPS290A	Use and maintain tools and equipment for refractory operations	30			New to PMC04
PMCOPS291A	Prepare for, install and repair refractory brickwork/blockwork	40			New to PMC04
PMCOPS292A	Prepare for and install mouldable refractory materials	40			New to PMC04
PMCOPS293A	Prepare for and cast refractory materials	40			New to PMC04
PMCOPS294A	Prepare for and apply shotcrete for installation	40			New to PMC04

PMC04 Unit Code	Unit Title	Hrs	PMC99 Unit Code	Unit Title	Comment
PMCOPS295A	Prepare for, install and repair ceramic fibre	40			New to PMC04
PMCOPS300B	Set up and tune a process	40	PMCOPS300A	Set up and tune a process	Equivalent
PMCOPS301B	Operate centralised process control systems	60	PMCOPS301A	Operate Centralised Process Control Systems	Equivalent
PMCOPS310B	Process raw meal into product	50	PMCOPS310A	Process raw meal into product	Equivalent
PMCOPS320B	Prepare moulds and dies	40			New to PMC04
PMCOPS321B	Set-up and tune glazing equipment	50	PMCOPS321A	Set-up and tune glazing equipment	Equivalent
PMCOPS340B	Set up and optimise glass forming process	80	PMCOPS340A	Set up and optimise glass forming process	Equivalent
PMCOPS341B	Set up and optimise glass furnace processes	80	PMCOPS341A	Set up and optimise glass furnace processes	Equivalent
PMCOPS342B	Set up and optimise secondary process	40	PMCOPS342A	Set up and optimise secondary process	Equivalent
PMCOPS350B	Produce architectural precast concrete	50			Part of PMCOPS350A. Other part is PMCOPS351A
PMCOPS351A	Produce structural precast concrete	60			Part of PMCOPS350A. Other part is PMCOPS350B
PMCOPS370A	Design and construct moulds for fibrous plaster products	40			New to PMC04
PMCOPS372A	Model fibrous plaster products	60			New to PMC04
PMCOPS380A	Set up and optimise finishing process	30			New to PMC04
PMCOPS390A	Test refractory materials	60			New to PMC04
PMCOPS400B	Optimise process systems	80	PMCOPS400A	Optimise process systems	Equivalent
PMCOPS420C	Design and prepare models, moulds and dies	40	PMCOPS320A	Design and Prepare Models, Moulds and Dies	Equivalent
PMCOPS490A	Undertake simple refractory design	40			New to PMC04
PMCOPS491A	Analyse refractory failures	30			New to PMC04
PMCOPS530B	Analyse equipment performance	50			New to PMC04
PMCOPS531A	Choose materials for an application	50			New to PMC04
PMCOPS630B	Develop a new product	60			New to PMC04
PMCOPS631B	Design structural/mechanical components	60			New to PMC04
PMCSUP170B	Shift materials safely	20	PMCSUP170A	Shift materials safely	Equivalent
PMCSUP171B	Pack finished products	20	PMCSUP171A	Pack finished products	Equivalent
PMCSUP172B	Store materials for production	150	PMCSUP172A	Store materials for production	Equivalent

PMC04 Unit Code	Unit Title	Hrs	PMC99 Unit Code	Unit Title	Comment
PMCSUP180A	Organise self	15	PMCSUP180A	Organise self	Equivalent
PMCSUP181A	Work in a team	20	PMCSUP181A	Work in a team	Equivalent
PMCSUP270A	Move materials	40	PMCSUP270A	Move materials	Equivalent
PMCSUP271B	Operate bulk materials handling equipment	40	PMCSUP271A	Operate bulk materials handling equipment	Equivalent
PMCSUP272A	Identify and Act Upon Hazards in the Workplace	20	PMCSUP272A	Identify and Act Upon Hazards in the Workplace	Equivalent
PMCSUP273A	Receive and despatch materials	20	PMCSUP273A	Receive and despatch materials	Equivalent
PMCSUP274B	Undertake minor maintenance	20	PMCSUP274A	Undertake minor maintenance	Equivalent
PMCSUP275A	Maintain kiln refractory	20	PMCSUP275A	Maintain kiln refractory	Equivalent
PMCSUP280A	Manage conflict at work	15	PMCSUP280A	Manage conflict at work	Equivalent
PMCSUP281A	Deliver customer service	20	PMCSUP281A	Deliver customer service	Equivalent
PMCSUP282A	Use Computers and Related Programs in the Workplace	35	PMCSUP282A	Use Computers and Related Programs in the Workplace	Equivalent
PMCSUP283B	Allocate and complete team tasks	20	PMCSUP283A	Allocate and complete team tasks	Equivalent
PMCSUP292A	Sample and test materials and product	20	PMCSUP292A	Sample and test materials and product	Equivalent
PMCSUP380B	Oversee team performance	20	PMCSUP380A	Oversee team performance	Equivalent
PMCSUP381B	Carry out stock control	20	PMCSUP381A	Perform purchase control	Equivalent
PMCSUP382A	Provide coaching/mentoring in the workplace	40			New to PMC04
PMCSUP391A	Collect and prepare standard samples	35	PMCSUP391A	Collect and prepare standard samples	Equivalent
PMCSUP392A	Perform basic laboratory tests	35	PMCSUP392A	Perform basic laboratory tests	Equivalent
PMCSUP393A	Perform instrumental analysis	35	PMCSUP393A	Perform instrumental analysis	Equivalent
BSBCMN402A	Develop work priorities	30			New frontline management unit
BSBCMN404A	Develop teams and individuals	40			New frontline management unit
BSBCMN410A	Coordinate implementation of customer service strategies	30			New frontline management unit
BSBCMN412A	Promote innovation and change	30	BSXFM1410A	Facilitate and capitalise on change and innovation	Updated in line with revision of frontline management
BSBFLM402A	Show leadership in the workplace	50	BSXFM1402A	Provide leadership in the workplace	Updated in line with revision of frontline management
BSBFLM403A	Manage effective workplace relationships	50	BSXFM1403A	Establish and manage effective workplace relationships	Updated in line with revision of frontline management

PMC04 Unit Code	Unit Title	Hrs	PMC99 Unit Code	Unit Title	Comment
BSBFLM404A	Lead work teams	50	BSXFMI404A	Participate in, lead and facilitate work teams	Updated in line with revision of frontline management
BSBFLM405A	Implement operational plan	50	BSXFMI405A	Manage operations to achieve planned outcomes	Updated in line with revision of frontline management
BSBFLM406A	Implement workplace information system	50	BSXFMI406A	Manage workplace information	Updated in line with revision of frontline management
BSBFLM409A	Implement continuous improvement	50	BSXFMI409A	Implement and monitor continuous improvement systems and processes	Updated in line with revision of frontline management
BSBFLM504A	Facilitate work teams	40			Higher level units than PMC99
BSBFLM505A	Manage operational plan	60			Higher level units than PMC99
BSBFLM509A	Promote continuous improvement	60			Higher level units than PMC99
BSBFLM510A	Facilitate and capitalise on change and innovation	60			Higher level units than PMC99
BSBFLM511A	Develop a workplace learning environment	60			Higher level units than PMC99
BSZ401A/ 402A/ 403A	Plan assessment/Conduct assessment/Review assessment	15 15 5	BSZ401A, 402A, 403A	Workplace Assessor	Updated in line with revised assessor standards
BSZ404A	Train small groups	30	BSZ404A	Train small groups	Updated in line with revised trainer standards
LMTEMGN06A	Design equipment and system modifications	100			New to PMC04
LMTEMGN07A	Manage installation and commissioning of equipment and systems	80			New to PMC04
LMTPDHL06A	Manage product development projects	100			New to PMC04
PMACOM300A	Contribute to the development of plant documentation	30	PMACOM300A	Contribute to the development of plant documentation	Equivalent
PMAOHS100B	Follow OHS procedures	20			New OHS suite
PMAOHS110B	Respond to emergency situation	20			New OHS suite

PMC04 Unit Code	Unit Title	Hrs	PMC99 Unit Code	Unit Title	Comment
PMAOHS200B	Participate in workplace safety procedures	20			New OHS suite
PMAOHS300B	Implement and monitor OHS policies and procedures for a work group	40			New OHS suite
PMAOHS400B	Contribute to workplace OHS management system	40			New OHS suite
PMAOHS401B	Assess risk	40			New OHS suite
PMAOHS503A	Maintain the workplace OHS management system	40			New OHS suite
PMAOHS510B	Manage risk	50			New OHS suite
PMAOHS601A	Establish workplace OHS management system	50			New OHS suite
PMAOPS101B	Read dials and indicators	15			New to PMC04
PMAOPS212A	Use enterprise data system	20			New to PMC04
PMAOPS216A	Operate local control system	40			New to PMC04
PMAOPS401B	Trial new process/product	40			New to PMC04
PMAOPS511A	Determine energy transfer loads	40			New to PMC04
PMAOPS512A	Determine mass transfer loads	40			New to PMC04
PMAOPS520B	Manage utilities	50			New to PMC04
PMAOPS521B	Plan plant shutdown	50			New to PMC04
PMAOPS600B	Modify plant	60			New to PMC04
PMAPER200C	Work in accordance with an issued permit	10			New to PMC04
PMAPER201C	Monitor and control work permits	20			New to PMC04
PMAPER205B	Enter confined space	20			New to PMC04
PMAPER300C	Issue work permits	10			New to PMC04
PMAPER302B	Issue work permits (hot work/confined space)	25			New to PMC04
PMAPROC101B	Make measurements	15	PMAPROC101A	Make measurements	Equivalent
PMASUP100B	Apply workplace procedures	20			New quality suite
PMASUP110A	Relay and respond to information	20	PMCCOR101A	Relay and respond to information	Equivalent
PMASUP120A	Follow environmental work practices	20	PMAENV100A	Identify and minimise environmental hazards	The environment series has been revised. Replacement unit
PMASUP130B	Follow established work plan	10			New to PMC04
PMASUP200B	Implement production efficiencies	20			New quality suite
PMASUP210A	Process and record information	20			New to PMC04

PMC04 Unit Code	Unit Title	Hrs	PMC99 Unit Code	Unit Title	Comment
PMASUP220A	Monitor and control environmental hazards	20	PMAENV200A	Monitor and control environmental hazards	Similar unit
PMASUP300B	Identify and implement opportunities to maximise production efficiencies	40			New quality suite
PMASUP320A	Implement and monitor environmental policies	40			The environment series has been revised. Replacement unit
PMASUP330B	Schedule production	20	PMAPLAN300A	Schedule production	Equivalent
PMASUP390A	Use structured problem solving tools	20	PMCSUP390A	Solve problems using 'quality tools'	Equivalent
PMASUP420A	Minimise environmental impact of process	40	PMAENV300A	Minimise environmental impact of process	Same unit but revised to AQF 4
PMASUP520A	Review procedures to minimise environmental impact of process	40			New environment unit for PMC04
PMASUP620A	Manage environmental management system	60			New environment unit for PMC04
PMBPREP508A	Produce drawings	140			New to PMC04
PMBPROD230B	Monitor process operations	26			New to PMC04
PMBTECH502B	Review and analyse production trials and specify retrials	50			New to PMC04

Traineeships, Apprenticeships and Pre-Apprenticeships

The following table provides a summary of the qualifications in the Manufactured Mineral Products Training Package PMC04 and the accredited traineeship, apprenticeship and pre-apprenticeship courses they will replace.

PMC99 Manufactured Mineral Products				Construction, Plumbing and Services Integrated Framework Training Package CPC08 Replacement Qualification		
Current Qualification				Replacement Qualification		
National ID	Qualification Title	Traineeship / Apprenticeship	Hours	National ID	Qualification Title	Hours
Traineeship						
PMC20199	Manufactured Mineral Products	Process Manufactured Mineral Products (level 2)	400	PMC20104	Manufactured Mineral Products	400
PMC30199	Manufactured Mineral Products	Process Manufactured Mineral Products (level 3)	665	PMC30104	Manufactured Mineral Products	665
PMC40199	Manufactured Mineral Products	Process Manufactured Mineral Products (level 4)	885	PMC40104	Manufactured Mineral Products	885
Apprenticeship						
Nil						
Pre-Apprenticeship						
Nil						

Training Package Example Programs

Units of competency may be customised so that the tasks involved in demonstrating competence are designed to meet the requirements of an individual enterprise or to satisfy regulations in a particular state or territory.

Each qualification in the Manufactured Mineral Products Training Package PMC04 may be customised to meet the context in which the training is taking place. A qualification can also be customised to accommodate a learner's chosen career pathway.

The following are examples of suitable training programs for the Manufactured Mineral Products Training Package PMC04. The models are not intended to be prescriptive but illustrate ways that qualifications can be achieved. The Manufactured Mineral Products Training Package PMC04 should be consulted for further information on packaging rules and units having pre-requisites.

Note:

Qualifications from the Manufactured Mineral Products Training Package PMC04 will be offered as traineeships. Page 21 of the Purchasing Guide indicates the traineeship qualifications. RTOs wishing to establish traineeships for other qualifications should contact the Apprenticeship and Traineeship unit at the Department of Education and Training.

The sample training programs for PMC20104 Certificate II in Manufactured Mineral Products (Glass) and PMC30104 Certificate III in Manufactured Mineral Products (Glass) exceed the nominal hours for the Certificate II and III qualifications. RTOs wanting to deliver this stream must consult with and obtain permission from the Apprenticeship and Traineeship unit at the Department of Education and Training to deliver the program.

PMC10104 – Certificate I in Manufactured Mineral Products

Qualification Title	Certificate I in Manufactured Mineral Products
Qualification Code	PMC10104
Qualification Summary	<p>This course will provide you with the practical skills and knowledge to become an operator assistant in a process manufacturing environment. You will learn about workplace procedures including OHS procedures as well as how to communicate information.</p> <p>You will learn skills to enable you to operate and clean equipment and safely shift materials.</p>
Qualification Packaging Rules	<p>Successful completion of a total of eight (8) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 3 core competencies ▪ At least 1 Operations competency ▪ Other Operations and Support competencies to make a total of 8 units. <p>Up to 4 Support units may be imported from other Training Packages.</p>

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOHS100B	Follow OHS procedures	20
Operations		
PMCOPS103B	Operate equipment	15
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
Support		
PMASUP100B	Apply workplace procedures	20
PMCSUP170B	Shift materials safely	20
PMCSUP181A	Work in a team	20
TOTAL		140

PMC20104 – Certificate II in Manufactured Mineral Products (Cement) Example Training Program 1:

Qualification Title	Certificate II in Manufactured Mineral Products
Qualification Code	PMC20104
Qualification Summary	<p>This course will provide you with the practical skills and knowledge to work as a kiln operator in the cement sector of the manufactured mineral products industry.</p> <p>You will learn about workplace procedures including OHS procedures as well as how to communicate information.</p> <p>You will learn skills to enable you to operate and clean a variety of equipment, prepare for production and undertake minor maintenance of equipment.</p>
Qualification Packaging Rules	<p>Successful completion of a total of fifteen (15) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 6 core competencies ▪ At least 2 Operations competencies from the OPS2XX series ▪ Other Operations and Support competencies to make a total of 15 units. <p>Up to 7 Support units may be imported from other Training Packages.</p>

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMCOPS201B	Operate a unit of equipment	40
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS203B	Operate grinding equipment	40
PMCOPS204B	Prepare for production	20
PMCOPS210B	Operate a calcining kiln	40
Support		
PMCSUP170B	Shift materials safely	20
PMCSUP181A	Work in a team	20
PMCSUP273A	Receive and despatch materials	20
PMCSUP274B	Undertake minor maintenance	20
TOTAL		335

PMC20104 – Certificate II in Manufactured Mineral Products (Ceramics)
Example Training Program 2:

Qualification Title	Certificate II in Manufactured Mineral Products (Ceramics)
Qualification Code	PMC20104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as a production operator in the whiteware sector of the ceramics industry. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to operate and clean equipment and safely shift materials.
Qualification Packaging Rules	Successful completion of a total of fifteen (15) units of competency made up of: <ul style="list-style-type: none"> ▪ All 6 core competencies ▪ At least 2 Operations competencies from the OPS2XX series ▪ Other Operations and Support competencies to make a total of 15 units. Up to 7 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS203B	Operate grinding equipment	40
PMCOPS220B	Operate slip casting equipment	30
PMCOPS221B	Operate manual glazing equipment	30
PMCOPS222B	Prepare raw materials for clay and ceramic production	30
PMCOPS223B	Finish products after firing	20
PMCOPS232B	Operate pressing equipment	30
PMCOPS230B	Operate a firing kiln	30
Support		
PMCSUP170B	Shift materials safely	20
TOTAL		365

PMC20104 – Certificate II in Manufactured Mineral Products (Clay Products)
 Example Training Program 3:

Qualification Title	Certificate II in Manufactured Mineral Products (Clay Products)
Qualification Code	PMC20104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as a brick maker/kiln operator in a brickmaking enterprise. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to operate a variety of equipment and prepare materials and equipment for production.
Qualification Packaging Rules	Successful completion of a total of fifteen (15) units of competency made up of: <ul style="list-style-type: none"> ▪ All 6 core competencies ▪ At least 2 Operations competencies from the OPS2XX series ▪ Other Operations and Support competencies to make a total of 15 units. Up to 7 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMCOPS201B	Operate a unit of equipment	40
PMCOPS204B	Prepare for production	20
PMCOPS221B	Operate manual glazing equipment	30
PMCOPS222B	Prepare raw materials for clay and ceramic production	30
PMCOPS230B	Operate a firing kiln	30
PMCOPS231B	Operate extrusion equipment	30
PMCOPS232B	Operate pressing equipment	30
Support		
PMCSUP181A	Work in a team	20
PMCSUP270A	Move materials	40
TOTAL		375

PMC20104 – Certificate II in Manufactured Mineral Products (Concrete Products)
Example Training Program 4:

Qualification Title	Certificate II in Manufactured Mineral Products (Concrete Products)
Qualification Code	PMC20104
Qualification Summary	<p>This course will provide you with the practical skills and knowledge to work as a precast concrete moulder in an enterprise manufacturing precast concrete products.</p> <p>You will learn about workplace procedures including OHS procedures as well as how to communicate information.</p> <p>You will learn skills to enable you to cast and demould moulded products, and finish concrete products.</p>
Qualification Packaging Rules	<p>Successful completion of a total of fifteen (15) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 6 core competencies ▪ At least 2 Operations competencies from the OPS2XX series ▪ Other Operations and Support competencies to make a total of 15 units. <p>Up to 7 Support units may be imported from other Training Packages.</p>

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMCOPS250B	Schedule, cut and bend reinforcement	40
PMCOPS251B	Finish green concrete products	40
PMCOPS252B	Cast moulded concrete products	40
PMCOPS253B	Finish cured concrete products	40
PMCOPS255B	Conduct benching operations	40
PMCOPS258A	Demould concrete products	20
PMCOPS260B	Batch mix concrete	30
Support		
PMCSUP170B	Shift materials safely	20
PMCSUP181A	Work in a team	20
TOTAL		395

PMC20104 – Certificate II in Manufactured Mineral Products (Glass)
Example Training Program 5:

Qualification Title	Certificate II in Manufactured Mineral Products (Glass)
Qualification Code	PMC20104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as a batch plant operator in the float sector of the glass manufacturing industry. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to safely operate a variety of equipment.
Qualification Packaging Rules	Successful completion of a total of fifteen (15) units of competency made up of: <ul style="list-style-type: none"> ▪ All 6 core competencies ▪ At least 2 Operations competencies from the OPS2XX series ▪ Other Operations and Support competencies to make a total of 15 units. Up to 7 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMCOPS201B	Operate a unit of equipment	40
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS206B	Operate an autoclave	20
PMCOPS240B	Operate melting process	50
PMCOPS241B	Operate process ovens	40
PMCOPS243B	Operate float forming equipment	50
PMCOPS249B	Operate on line stacking and assembly equipment	40
Support		
PMCSUP271B	Operate bulk materials handling equipment	40
PMCSUP181A	Work in a team	20
TOTAL		435

PMC20104 – Certificate II in Manufactured Mineral Products (Premixed Concrete)
Example Training Program 6:

Qualification Title	Certificate II in Manufactured Mineral Products (Premixed Concrete)
Qualification Code	PMC20104
Qualification Summary	<p>This course will provide you with the practical skills and knowledge to work as an operator in a premixed concrete plant.</p> <p>You will learn about workplace procedures including OHS procedures as well as how to communicate information.</p> <p>You will learn skills to enable you to safely operate and undertake minor maintenance on a variety of equipment, mix concrete, deliver concrete and receive and despatch materials.</p>
Qualification Packaging Rules	<p>Successful completion of a total of fifteen (15) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 6 core competencies ▪ At least 2 Operations competencies from the OPS2XX series ▪ Other Operations and Support competencies to make a total of 15 units. <p>Up to 7 Support units may be imported from other Training Packages.</p>

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMCOPS201B	Operate a unit of equipment	40
PMCOPS260B	Batch mix concrete	30
PMCOPS261B	Deliver concrete to site	30
PMCOPS204B	Prepare for production	20
Support		
PMCSUP181A	Work in a team	20
PMCSUP270A	Move materials	40
PMCSUP273A	Receive and despatch materials	20
PMCSUP274B	Undertake minor maintenance	20
TDTC497C	Drive heavy rigid vehicle	40
TOTAL		365

PMC20104 – Certificate II in Manufactured Mineral Products (Asphalt)
Example Training Program 7:

Qualification Title	Certificate II in Manufactured Mineral Products (Asphalt)
Qualification Code	PMC20104
Qualification Summary	<p>This course will provide you with the practical skills and knowledge to work as a production operator in an enterprise which manufactures asphalt/asphalt based products.</p> <p>You will learn about workplace procedures including OHS procedures as well as how to communicate information.</p> <p>You will learn skills to enable you to safely operate and undertake minor maintenance on a variety of equipment used in the production of asphalt.</p>
Qualification Packaging Rules	<p>Successful completion of a total of fifteen (15) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 6 core competencies ▪ At least 2 Operations competencies from the OPS2XX series ▪ Other Operations and Support competencies to make a total of 15 units. <p>Up to 7 Support units may be imported from other Training Packages.</p>

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMBPROD230B	Monitor process operations	26
PMCOPS201B	Operate a unit of equipment	40
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS203B	Operate grinding equipment	40
PMCOPS204B	Prepare for production	20
PMCOPS265A	Prepare asphalt	40
Support		
PMCSUP181A	Work in a team	20
PMCSUP170B	Shift materials safely	20
PMCSUP274B	Undertake minor maintenance	20
TOTAL		361

PMC20104 – Certificate II in Manufactured Mineral Products (Plasterboard)
Example Training Program 8:

Qualification Title	Certificate II in Manufactured Mineral Products (Plasterboard)
Qualification Code	PMC20104
Qualification Summary	<p>This course will provide you with the practical skills and knowledge to work as a production operator in an enterprise which manufactures plasterboard and related products.</p> <p>You will learn about workplace procedures including OHS procedures as well as how to communicate information.</p> <p>You will learn skills to enable you to safely operate and undertake minor maintenance on a variety of equipment used in the production of plasterboard.</p>
Qualification Packaging Rules	<p>Successful completion of a total of fifteen (15) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 6 core competencies ▪ At least 2 Operations competencies from the OPS2XX series ▪ Other Operations and Support competencies to make a total of 15 units. <p>Up to 7 Support units may be imported from other Training Packages.</p>

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMBPROD230B	Monitor process operations	26
PMCOPS201B	Operate a unit of equipment	40
PMCOPS204B	Prepare for production	20
PMCOPS270A	Operate forming equipment	40
PMCOPS271A	Operate wet and dry end equipment	50
PMCOPS272A	Produce fibrous plasterboard	30
Support		
PMCSUP181A	Work in a team	20
PMCSUP170B	Shift materials safely	20
PMCSUP274B	Undertake minor maintenance	20
TOTAL		371

PMC20104 – Certificate II in Manufactured Mineral Products (Fibre Cement)
Example Training Program 9:

Qualification Title	Certificate II in Manufactured Mineral Products (Fibre Cement)
Qualification Code	PMC20104
Qualification Summary	<p>This course will provide you with the practical skills and knowledge to work as a production operator in an enterprise which manufactures fibre cement sheeting and related products.</p> <p>You will learn about workplace procedures including OHS procedures as well as how to communicate information.</p> <p>You will learn skills to enable you to safely operate and undertake minor maintenance on a variety of equipment used in the production of fibre cement sheeting.</p>
Qualification Packaging Rules	<p>Successful completion of a total of fifteen (15) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 6 core competencies ▪ At least 2 Operations competencies from the OPS2XX series ▪ Other Operations and Support competencies to make a total of 15 units. <p>Up to 7 Support units may be imported from other Training Packages.</p>

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMCOPS202B	Operate equipment to blend/mix materials	30
PMBPROD230B	Monitor process operations	26
PMCOPS201B	Operate a unit of equipment	40
PMCOPS204B	Prepare for production	20
PMCOPS271A	Operate wet and dry end equipment	50
Support		
PMCSUP181A	Work in a team	20
PMCSUP170B	Shift materials safely	20
PMCSUP274B	Undertake minor maintenance	20
TDTD1097B	Operate a forklift	40
TOTAL		371

**PMC20104 – Certificate II in Manufactured Mineral Products (Refractories)
Example Training Program 10:**

Qualification Title	Certificate II in Manufactured Mineral Products (Refractories)
Qualification Code	PMC20104
Qualification Summary	<p>This course will provide you with the practical skills and knowledge to work as a production operator in the refractory sector of the manufactured mineral products industry.</p> <p>You will learn about workplace procedures including OHS procedures as well as how to communicate information.</p> <p>You will learn skills to enable you to safely operate and maintain a variety of tools and equipment used in refractory operations as well as skills to preparing and installing refractory materials.</p>
Qualification Packaging Rules	<p>Successful completion of a total of fifteen (15) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 6 core competencies ▪ At least 2 Operations competencies from the OPS2XX series ▪ Other Operations and Support competencies to make a total of 15 units. <p>Up to 7 Support units may be imported from other Training Packages.</p>

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMCOPS290A	Use and maintain tools and equipment for refractory operations	30
PMCOPS291A	Prepare for, install and repair refractory brickwork/blockwork	40
PMCOPS292A	Prepare for and install mouldable refractory materials	40
PMCOPS293A	Prepare for and cast refractory materials	40
PMCOPS294A	Prepare for and apply shotcrete for installation	40
PMCOPS201B	Operate a unit of equipment	40
Support		
PMCSUP170B	Shift materials safely	20
PMCSUP181A	Work in a team	20
PMCSUP275A	Maintain kiln refractory	20
TOTAL		395

PMC20204 – Certificate II in Production Support

Qualification Title	Certificate II in Production Support
Qualification Code	PMC20204
Qualification Summary	<p>This course will provide you with the practical skills and knowledge to work as an operator in a production environment in the manufactured minerals products environment.</p> <p>You will learn about workplace procedures including OHS procedures as well as how to communicate information.</p> <p>You will learn skills to operate and undertake minor maintenance on a variety of equipment, prepare for production and receive move and despatch materials.</p>
Qualification Packaging Rules	<p>Successful completion of a total of fifteen (15) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 6 core competencies ▪ Sufficient other units from PMC04, at least 2 of which must be from the 2XX series and up to 7 relevant units from another endorsed Training Package to total 15 units.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMCOPS201B	Operate a unit of equipment	40
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS204B	Prepare for production	20
PMBPROD230B	Monitor process operations	26
Support		
PMCSUP181A	Work in a team	20
PMCSUP270A	Move materials	40
PMCSUP273A	Receive and despatch materials	20
PMCSUP274B	Undertake minor maintenance	20
TDTD1097B	Operate a forklift	40
TOTAL		361

PMC30104 – Certificate III in Manufactured Mineral Products (Cement) Example Training Program 1:

Qualification Title	Certificate III in Manufactured Mineral Products
Qualification Code	PMC30104
Qualification Summary	<p>This course will provide you with the practical skills and knowledge to work as a plant operator with enhanced skills and undertake quality control testing in the cement sector.</p> <p>You will learn about workplace procedures including OHS procedures, environmental practices and communication techniques.</p> <p>You will learn skills to enable you to operate and clean a variety of equipment, prepare for production, undertake minor maintenance of equipment and instrument analysis and safely receive, shift and despatch materials.</p>
Qualification Packaging Rules	<p>Successful completion of a total of twenty (20) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 7 core competencies ▪ At least 1 Operations unit from the OPS3XXX ▪ Sufficient other operations and support units to make up the required total of 20 units <p>Up to 12 Support units may be imported from other Training Packages.</p>

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
PMAOHS200B	Participate in workplace OHS procedures	20
Operations		
PMCOPS201B	Operate a unit of equipment	40
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS203B	Operate grinding equipment	40
PMCOPS204B	Prepare for production	20
PMCOPS210B	Operate a calcining kiln	40
PMCOPS300B	Set up and tune a process	40
PMCOPS310B	Process raw meal into product	50
Support		
PMCSUP170B	Shift materials safely	20
PMCSUP181A	Work in a team	20
PMCSUP273A	Receive and despatch materials	20
PMCSUP274B	Undertake minor maintenance	20
PMCSUP392A	Perform basic laboratory tests	35
PMCSUP393A	Perform instrumental analysis	35
TOTAL		535

**PMC30104 – Certificate III in Manufactured Mineral Products (Ceramics)
Example Training Program 2:**

Qualification Title	Certificate III in Manufactured Mineral Products (Ceramics)
Qualification Code	PMC30104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as an advanced operator/leading hand in the ceramics sector of the industry. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to operate and clean a variety of equipment, safely shift materials and coach/mentor others in the workplace.
Qualification Packaging Rules	Successful completion of a total of twenty (20) units of competency made up of: <ul style="list-style-type: none"> ▪ All 7 core competencies ▪ At least 1 Operations unit from the OPS3XXX ▪ Sufficient other operations and support units to make up the required total of 20 units Up to 12 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMAOHS200B	Participate in workplace OHS procedures	20
PMASUP120A	Follow environmental work practices	20
Operations		
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS203B	Operate grinding equipment	40
PMCOPS220B	Operate slip casting equipment	30
PMCOPS221B	Operate manual glazing equipment	30
PMCOPS222B	Prepare materials for clay and ceramic production	30
PMCOPS223B	Finish products after firing	20
PMCOPS232B	Operate pressing equipment	30
PMCOPS230B	Operate a firing kiln	30
PMCOPS300B	Set up and tune a process	40
PMCOPS321B	Set up and tune glazing equipment	50
Support		
PMCSUP170B	Shift materials safely	20
PMCSUP382A	Provide coaching/mentoring in the workplace	40
PMASUP220A	Monitor and control environmental hazards	20
TOTAL		535

PMC30104 – Certificate III in Manufactured Mineral Products (Clay Products)
 Example Training Program 3:

Qualification Title	Certificate III in Manufactured Mineral Products (Clay Products)
Qualification Code	PMC30104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as an advanced operator/team leader in the clay products sector and take on a coaching/mentoring role within an enterprise. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to operate a variety of equipment and prepare materials and equipment for production, prepare basic tests and coach/mentor others.
Qualification Packaging Rules	Successful completion of a total of twenty (20) units of competency made up of: <ul style="list-style-type: none"> ▪ All 7 core competencies ▪ At least 1 Operations unit from the OPS3XXX ▪ Sufficient other operations and support units to make up the required total of 20 units Up to 12 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
PMAOHS200B	Participate in workplace OHS procedures	20
Operations		
PMCOPS201B	Operate a unit of equipment	40
PMCOPS204B	Prepare for production	20
PMCOPS221B	Operate manual glazing equipment	30
PMCOPS222B	Prepare raw materials for clay and ceramic production	30
PMCOPS230B	Operate a firing kiln	30
PMCOPS231B	Operate extrusion equipment	30
PMCOPS232B	Operate pressing equipment	30
PMCOPS300B	Set up and tune a process	40
Support		
PMCSUP181A	Work in a team	20
PMCSUP270A	Move materials	40
PMASUP220A	Monitor and control environmental hazards	20
PMCSUP382A	Provide coaching/mentoring in the workplace	40
PMCSUP392A	Perform basic laboratory tests	35
TOTAL		530

PMC30104 – Certificate III in Manufactured Mineral Products (Concrete Products)
Example Training Program 4:

Qualification Title	Certificate III in Manufactured Mineral Products (Concrete Products)
Qualification Code	PMC30104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as an advanced moulder in an enterprise manufacturing precast concrete products. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to cast and demould moulded products, finish concrete products, collect and prepare samples and produce different types of concrete.
Qualification Packaging Rules	Successful completion of a total of twenty (20) units of competency made up of: <ul style="list-style-type: none"> ▪ All 7 core competencies ▪ At least 1 Operations unit from the OPS3XXX ▪ Sufficient other operations and support units to make up the required total of 20 units Up to 12 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
PMAOHS200B	Participate in workplace OHS procedures	20
Operations		
PMCOPS250B	Schedule, cut and bend reinforcement	40
PMCOPS251B	Finish green concrete products	40
PMCOPS252B	Cast moulded concrete products	40
PMCOPS253B	Finish cured concrete products	40
PMCOPS255B	Conduct benching operations	40
PMCOPS258A	Demould concrete products	20
PMCOPS260B	Batch mix concrete	30
PMCOPS256A	Assemble, fabricate and place reinforcement	30
PMCOPS350B	Produce architectural precast concrete	50
PMCOPS257A	Finish casting operation	20
PMCOPS351A	Produce structural precast concrete	60
Support		
PMCSUP170B	Shift materials safely	20
PMCSUP181A	Work in a team	20
TOTAL		575

PMC30104 – Certificate III in Manufactured Mineral Products (Glass)
Example Training Program 5:

Qualification Title	Certificate III in Manufactured Mineral Products (Glass)
Qualification Code	PMC30104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as an advanced operator in a float glass manufacturing enterprise. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to safely operate a variety of equipment, work in and oversee a team and optimise processes.
Qualification Packaging Rules	Successful completion of a total of twenty (20) units of competency made up of: <ul style="list-style-type: none"> ▪ All 7 core competencies ▪ At least 1 Operations unit from the OPS3XXX ▪ Sufficient other operations and support units to make up the required total of 20 units Up to 12 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
PMAOHS200B	Participate in workplace OHS procedures	20
Operations		
PMCOPS201B	Operate a unit of equipment	40
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS206B	Operate an autoclave	20
PMCOPS240B	Operate melting process	50
PMCOPS241B	Operate process ovens	40
PMCOPS243B	Operate float forming equipment	50
PMCOPS249B	Operate on line stacking and assembly equipment	40
PMCOPS340B	Set up and optimise glass forming process	80
PMCOPS341B	Set up and optimise glass furnace processes	80
PMCOPS342B	Set up and optimise secondary process	40
Support		
PMCSUP271B	Operate bulk materials handling equipment	40
PMCSUP181A	Work in a team	20
PMCSUP380B	Oversee team performance	20
TOTAL		675

PMC30104 – Certificate III in Manufactured Mineral Products (Premixed Concrete)
Example Training Program 6:

Qualification Title	Certificate III in Manufactured Mineral Products (Premixed Concrete)
Qualification Code	PMC30104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as a batch plant operator in a premixed concrete plant. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to safely operate and undertake minor maintenance on a variety of equipment, mix concrete, deliver concrete, receive and despatch materials and perform basic tests.
Qualification Packaging Rules	Successful completion of a total of twenty (20) units of competency made up of: <ul style="list-style-type: none"> ▪ All 7 core competencies ▪ At least 1 Operations unit from the OPS3XXX ▪ Sufficient other operations and support units to make up the required total of 20 units Up to 12 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
PMAOHS200B	Participate in workplace OHS procedures	20
Operations		
PMCOPS201B	Operate a unit of equipment	40
PMCOPS260B	Batch mix concrete	30
PMCOPS261B	Deliver concrete to site	30
PMCOPS204B	Prepare for production	20
PMCOPS300B	Set up and tune a process	40
PMCOPS301B	Operate centralised process control systems	60
Support		
PMCSUP181A	Work in a team	20
PMCSUP270A	Move materials	40
PMCSUP273A	Receive and despatch materials	20
PMCSUP274B	Undertake minor maintenance	20
PMCSUP382A	Provide coaching/mentoring in the workplace	40
PMCSUP392A	Perform basic laboratory tests	35
TDTC497A	Drive heavy rigid vehicle	40
TOTAL		560

PMC30104 – Certificate III in Manufactured Mineral Products (Asphalt)
Example Training Program 7:

Qualification Title	Certificate III in Manufactured Mineral Products (Asphalt)
Qualification Code	PMC30104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as an advanced operator in an enterprise which manufactures asphalt/asphalt based products. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to safely operate and undertake minor maintenance on a variety of equipment, set up, tune and monitor processes and coach/mentor others.
Qualification Packaging Rules	Successful completion of a total of twenty (20) units of competency made up of: <ul style="list-style-type: none"> ▪ All 7 core competencies ▪ At least 1 Operations unit from the OPS3XXX ▪ Sufficient other operations and support units to make up the required total of 20 units Up to 12 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
PMAOHS200B	Participate in workplace OHS procedures	20
Operations		
PMBPROD230B	Monitor process operations	26
PMCOPS201B	Operate a unit of equipment	40
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS203B	Operate grinding equipment	40
PMCOPS204B	Prepare for production	20
PMCOPS265A	Prepare asphalt	40
PMCOPS300B	Set up and tune a process	40
Support		
PMCSUP181A	Work in a team	20
PMCSUP170B	Shift materials safely	20
PMCSUP274B	Undertake minor maintenance	20
PMCSUP382A	Provide coaching/mentoring in the workplace	40
PMCSUP391A	Collect and prepare standard samples	35
PMCSUP380B	Oversee team performance	20
TOTAL		516

PMC30104 – Certificate III in Manufactured Mineral Products (Fibrous Plaster)
Example Training Program 8:

Qualification Title	Certificate III in Manufactured Mineral Products (Fibrous Plaster)
Qualification Code	PMC30104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as a fibrous plaster modeler in an enterprise which manufactures plasterboard and related products. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to safely operate and undertake minor maintenance on a variety of equipment, design and construct moulds, model plaster products, draw and interpret sketches and collect and prepare samples.
Qualification Packaging Rules	Successful completion of a total of twenty (20) units of competency made up of: <ul style="list-style-type: none"> ▪ All 7 core competencies ▪ At least 1 Operations unit from the OPS3XXX ▪ Sufficient other operations and support units to make up the required total of 20 units Up to 12 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
PMAOHS200B	Participate in workplace OHS procedures	20
Operations		
PMCOPS224B	Hand mould products	30
PMCOPS201B	Operate a unit of equipment	40
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS270A	Operate forming equipment	40
PMCOPS271A	Operate wet and dry end equipment	50
PMCOPS370A	Design and construct moulds for fibrous plaster products	40
PMCOPS372A	Model fibrous plaster products	60
Support		
PMCSUP181A	Work in a team	20
PMCSUP170B	Shift materials safely	20
PMCSUP382A	Provide coaching/mentoring in the workplace	40
PMCSUP391A	Collect and prepare standard samples	35
MEM9.1AA	Draw and interpret a sketch	18
MEM9.2AA	Interpret technical drawing	36
TOTAL		584

PMC30104 – Certificate III in Manufactured Mineral Products (Fibre Cement)
Example Training Program 9:

Qualification Title	Certificate III in Manufactured Mineral Products (Fibre Cement)
Qualification Code	PMC30104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as an advanced operator in an enterprise which manufactures fibre cement sheeting and related products. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to safely operate and undertake minor maintenance on a variety of equipment, set up, tune and monitor processes and coach/mentor others.
Qualification Packaging Rules	Successful completion of a total of twenty (20) units of competency made up of: <ul style="list-style-type: none"> ▪ All 7 core competencies ▪ At least 1 Operations unit from the OPS3XXX ▪ Sufficient other operations and support units to make up the required total of 20 units Up to 12 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
PMAOHS200B	Participate in workplace OHS procedures	20
Operations		
PMCOPS202B	Operate equipment to blend/mix materials	30
PMBPROD230B	Monitor process operations	26
PMCOPS201B	Operate a unit of equipment	40
PMCOPS204B	Prepare for production	20
PMCOPS271A	Operate wet and dry end equipment	50
PMCOPS300B	Set up and tune a process	40
PMCOPS380A	Set up and optimise finishing process	30
Support		
PMCSUP181A	Work in a team	20
PMCSUP170B	Shift materials safely	20
PMCSUP274B	Undertake minor maintenance	20
TDTD1097B	Operate a forklift	40
PMCSUP382A	Provide coaching/mentoring in the workplace	40
PMCSUP391A	Collect and prepare standard samples	35
TOTAL		536

PMC30104 – Certificate III in Manufactured Mineral Products (Refractories)
 Example Training Program 9:

Qualification Title	Certificate III in Manufactured Mineral Products (Refractories)
Qualification Code	PMC30104
Qualification Summary	This course will provide you with the practical skills and knowledge to work as an advanced operator and to take on a coaching/mentoring role in the refractory sector of the manufactured mineral products industry. You will learn about workplace procedures including OHS procedures as well as how to communicate information. You will learn skills to enable you to safely operate and maintain a variety of tools and equipment used in refractory operations as well as skills in preparing, installing and testing refractory materials.
Qualification Packaging Rules	Successful completion of a total of twenty (20) units of competency made up of: <ul style="list-style-type: none"> ▪ All 7 core competencies ▪ At least 1 Operations unit from the OPS3XXX ▪ Sufficient other operations and support units to make up the required total of 20 units Up to 12 Support units may be imported from other Training Packages.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
PMAOHS200B	Participate in workplace OHS procedures	20
Operations		
PMCOPS290A	Use and maintain tools and equipment for refractory operations	30
PMCOPS291A	Prepare for, install and repair refractory brickwork/blockwork	40
PMCOPS292A	Prepare for and install mouldable refractory materials	40
PMCOPS293A	Prepare for and cast refractory materials	40
PMCOPS294A	Prepare for and apply shotcrete for installation	40
PMCOPS300B	Set up and tune a process	40
PMCOPS201B	Operate a unit of equipment	40
PMCOPS390A	Test refractory materials	60
Support		
PMCSUP170B	Shift materials safely	20
PMCSUP181A	Work in a team	20
PMCSUP275A	Maintain kiln refractory	20
PMCSUP382A	Provide coaching/mentoring in the workplace	40
PMCSUP391A	Collect and prepare standard samples	35
TOTAL		590

PMC30204 – Certificate III in Production Support

Qualification Title	Certificate III in Production Support
Qualification Code	PMC30204
Qualification Summary	<p>This course will provide you with the practical skills and knowledge to work as an advanced operator and team leader in the manufacturing mineral products industry.</p> <p>You will learn about workplace procedures including OHS procedures as well as how to communicate information.</p> <p>You will learn skills to operate and undertake minor maintenance on a variety of equipment, prepare for production and receive, move and despatch materials. You will also learn skills in the collection and preparation of samples and performing basic tests.</p>
Qualification Packaging Rules	<p>Successful completion of a total of twenty (20) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 7 core competencies ▪ Sufficient other units from PMC04, at least 1 of which must be from the 3XX series, and up to 12 relevant units from another endorsed Training Package to total 20 units.

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMASUP110A	Relay and respond to information	20
PMCCOR102A	Clean plant and equipment	10
PMAOPS101B	Read dials and indicators or PMAPROC101B Make measurements	15
PMAOHS100B	Follow OHS procedures	20
PMASUP100B	Apply workplace procedures	20
PMASUP120A	Follow environmental work practices	20
PMAOHS200B	Participate in workplace OHS procedures	20
Operations		
PMCOPS201B	Operate a unit of equipment	40
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS204B	Prepare for production	20
PMBPROD230B	Monitor process operations	26
PMCOPS300B	Set up and tune a process	40
Support		
PMCSUP181A	Work in a team	20
PMCSUP270A	Move materials	40
PMCSUP273A	Receive and despatch materials	20
PMCSUP274B	Undertake minor maintenance	20
TDTD1097B	Operate a forklift	40
PMCSUP382A	Provide coaching/mentoring in the workplace	40
PMCSUP391A	Collect and prepare standard samples	35
PMCSUP392A	Perform basic laboratory tests	35
TOTAL		531

PMC40104 – Certificate IV in Manufactured Mineral Products (Glass)

Qualification Title	Certificate IV in Manufactured Mineral Products
Qualification Code	PMC40104
Qualification Packaging Rules	<p>Successful completion of a total of twenty four (24) units of competency made up of:</p> <ul style="list-style-type: none"> ▪ All 8 core competencies <ul style="list-style-type: none"> ○ 7 units are from the Core group ○ and 1 of the following units <ul style="list-style-type: none"> ▪ PMAOPS101B Read dials and indicators ▪ PMAPROC101B Make measurements ▪ And between 1 and 5 units from the Operations/technical OPS4XX series ▪ And between 0 and 15 units from the Support units and/or other Training Packages

The following table outlines ONE example of a training program for this qualification. Please refer to the Training Package for the full details of available options.

GLASS - EXAMPLE PROGRAM		
Unit Code	Unit Title	Nominal Hours
Core		
PMAOHS100B	Follow OHS procedures	20
PMAOHS200B	Participate in workplace OHS procedures	20
PMAOPS101B	Read dials and indicators	15
PMASUP100B	Apply workplace procedures	20
PMASUP110A	Relay and respond to information	20
PMASUP120A	Follow environmental work practices	20
PMASUP200B	Implement production efficiencies	20
PMCCOR102A	Clean plant and equipment	10
Operations OPS4XX Units		
PMAOPS401B	Trial new process/product	40
PMCOPS420C	Design and prepare models, moulds and dies	40
Operations / Support		
BSBFLM402A	Show leadership in the workplace	50
PMCSUP271B	Oversee team performance	20
PMCOPS201B	Operate a unit of equipment	40
PMCOPS202B	Operate equipment to blend/mix materials	30
PMCOPS206B	Operate an autoclave	20
PMCOPS240B	Operate melting process	50
PMCOPS241B	Operate process ovens	40
PMCOPS243B	Operate float forming equipment	50
PMCOPS249B	Operate on line stacking and assembly equipment	40
PMCOPS340B	Set up and optimise glass forming process	80
PMCOPS341B	Set up and optimise glass furnace processes	80
PMCOPS342B	Set up and optimise secondary process	40
PMCSUP181A	Work in a team	20
PMCSUP271B	Operate bulk materials handling equipment	40
TOTAL		805

18/3/2010 Please note: PMC40104 was omitted from the original Training Package Purchasing Guide