

**PMB07 PLASTICS,  
RUBBER AND  
CABLEMAKING  
TRAINING PACKAGE**

**VERSION1**

**WA NOMINAL HOURS  
GUIDE**

**Western Australian Department of Education and Training**

**June 2008**

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## Introduction

This Guide has been generated to enable the stakeholders in the Plastics, Rubber and Cablemaking Industry in Western Australia to participate in the managed implementation of the National PMB07 Plastics, Rubber and Cablemaking Training Package.

This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing Training Package qualifications to new Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the **endorsed components** of the Training Package

Version 1 of the PMB07 Plastics, Rubber and Cablemaking Training Package was released by Training.Gov.Au (TGA) on the **20 March 2008**.

## Obtaining the Training Package

The PMB07 Plastics, Rubber and Cablemaking Training Package can be purchased from:



Office: Level 8, 80 Arthur Street  
North Sydney NSW 2060  
Postal: PO Box 289  
North Sydney NSW 2059  
T: 1800 358 458 | F: (02) 9955 8044  
E: [info@mskills.com.au](mailto:info@mskills.com.au)  
W: [www.mskills.com.au](http://www.mskills.com.au)

Information on National Training Packages is also available through Training.Gov (TGA), which can be located on the Internet at: [www.training.gov.au](http://www.training.gov.au)

**All RTOs who have Training Package qualifications on their Scope of Delivery must have access to the relevant Training Package.**

## 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 Training.gov.au (TGA).

Students currently enrolled in an existing version of the Training Package qualification should be permitted to complete the program they enrolled in initially, unless the move to the related qualification from a Training Package can be made without disadvantage to a student.

## Nominal Hours

The Commonwealth Department of Employment, Education and Workplace Relations' definition of nominal hours states:

***“The value assigned to a structured program of study that nominally represents the anticipated hours of supervised learning and/or training deemed necessary to conduct training/learning and assessment activities associated with the program of study”***

Source: National Quality Council Training Package Glossary Version V2.1  
17/03/2010

<http://www.deewr.gov.au/Skills/Overview/Policy/TPDH/Downloads/Documents/TrainingPackGlossary.pdf>

Nominal hours are identified for each Training Package qualification. Total nominal hours may vary within a qualification depending on the units of competency

In Western Australia, nominal hours are used as a mechanism for funding allocation.

## Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the PMB07 Plastics, Rubber and Cablemaking Training Package

<b>National ID</b>	<b>Qualification Title</b>	<b>Nominal Hours</b>
PMB20107	Certificate II in Polymer Processing	420
PMB30107	Certificate III in Polymer Processing	770
PMB40107	Certificate IV in Polymer Technology	1093
PMB50107	Diploma of Polymer Technology	832
PMB60107	Advanced Diploma of Polymer Technology	1570

## Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the industry PMB07 Plastics, Rubber and Cablemaking Training Package

National ID	Training Package Unit Title	Nominal Hours
MCMS401A	Ensure process improvements are sustained	50
MEM09002B	Interpret technical drawing	36
MEM09003B	Prepare basic engineering drawing	72
MEM11005B	Pick and process order	36
MEM11007B	Administer inventory procedures	36
MEM12023A	Perform engineering measurements	48
MEM13003B	Work safely with industrial chemicals and materials	18
MEM15001B	Perform basic statistical quality control	18
MEM15003B	Use improvement processes in team activities	36
MEM18001C	Use hand tools	18
MEM18002B	Use power tools/hand held operations	18
MSAPMOHS100A	Follow OHS procedures	26
MSAPMOHS110A	Follow emergency response procedures	26
MSAPMOHS200A	Work safely	26
MSAPMOHS205A	Control minor incidents	26
MSAPMOHS210A	Undertake first response to non-fire incidents	26
MSAPMOHS212A	Undertake first response to fire incidents	26
MSAPMOHS300A	Facilitate the implementation of OHS for a work group	40
MSAPMOPS100A	Use equipment	30
MSAPMOPS101A	Make measurements	26
MSAPMOPS102A	Perform tasks to support production	30
MSAPMOPS200A	Operate equipment	40
MSAPMOPS212A	Use enterprise computers or data systems	26
MSAPMOPS363A	Organise on site work	30
MSAPMOPS401A	Trial new process or product	26
MSAPMOPS404A	Co-ordinate maintenance	26
MSAPMOPS405A	Identify problems in fluid power system	40
MSAPMOPS406A	Identify problems in electronic control systems	40
MSAPMSUP100A	Apply workplace procedures	26
MSAPMSUP101A	Clean workplace or equipment	26
MSAPMSUP102A	Communicate in the workplace	26
MSAPMSUP106A	Work in a team	26
MSAPMSUP172A	Identify and minimise environmental hazards	20
MSAPMSUP200A	Achieve work outcomes	52
MSAPMSUP201A	Receive or despatch goods	26
MSAPMSUP204A	Pack products or materials	26
MSAPMSUP205A	Transfer loads	26
MSAPMSUP210A	Process and record information	13
MSAPMSUP230A	Monitor process operations	26
MSAPMSUP240A	Undertake minor maintenance	26
MSAPMSUP273A	Handle goods	30
MSAPMSUP291A	Participate in continuous improvement	26
MSAPMSUP301A	Apply HACCP to the workplace	30
MSAPMSUP303A	Identify equipment faults	26
MSAPMSUP309A	Maintain and organise workplace records	26
MSAPMSUP383A	Facilitate a team	20
MSAPMSUP390A	Use structured problem solving tools	40
MSAPMSUP400A	Develop and monitor quality systems	50

National ID	Training Package Unit Title	Nominal Hours
PMBFIN201C	Finish products and components	26
PMBFIN202C	Fit attachments to products	26
PMBFIN203C	Repair product imperfections	26
PMBFIN205C	Hand decorate products	52
PMBHAN103C	Shift materials safely by hand	26
PMBHAN208C	Store products	26
PMBPREP201B	Prepare moulds for composites production	20
PMBPREP205C	Assemble materials and equipment for production	26
PMBPREP206C	Prepare materials to formulae	26
PMBPREP301C	Set up and prepare for production	13
PMBPREP303C	Set up equipment for continuous operation	26
PMBPREP304C	Set a die	26
PMBPREP305B	Change extrusion die and setup	60
PMBPROD206B	Operate ancillary equipment	40
PMBPROD207B	Operate Calendar	70
PMBPROD209C	Operate cable winding equipment	26
PMBPROD210B	Operate injection moulding equipment	60
PMBPROD211B	Operate blow moulding equipment	60
PMBPROD212B	Operate thermoforming equipment	60
PMBPROD213B	Operate extruders	60
PMBPROD216B	Operate blown film equipment	60
PMBPROD217B	Operate printing equipment	20
PMBPROD221B	Operate rotational moulding equipment	60
PMBPROD229B	Operate polystyrene shape moulding equipment	40
PMBPROD233B	Operate film conversion equipment	60
PMBPROD235C	Use materials and process knowledge to complete work operations	26
PMBPROD236C	Operate hand held air/power equipment for production processes	13
PMBPROD237C	Splice cables	52
PMBPROD238A	Perform creel rack operations	30
PMBPROD239A	Build reinforced conveyor belts	40
PMBPROD240C	Cut materials	26
PMBPROD241C	Lay up rubber lining or lag pulleys	30
PMBPROD242A	Bond polymers to surfaces	40
PMBPROD245C	Fabricate materials	52
PMBPROD246C	Hand mix materials	13
PMBPROD247C	Hand lay up composites	52
PMBPROD248C	Prepare surfaces for coating	26
PMBPROD249B	Apply liquid surface coatings	40
PMBPROD251B	Apply gel coat or other polymer surface finish	20
PMBPROD252C	Operate compounding equipment	26
PMBPROD253C	Operate an internal mill blender	26
PMBPROD254C	Operate an open mill blender	26
PMBPROD255C	Operate mixing equipment	26
PMBPROD259C	Operate granulating equipment	26
PMBPROD261B	Operate continuous vulcanising equipment	20
PMBPROD262B	Operate tyre curing equipment	20
PMBPROD263B	Operate retread curing equipment	20
PMBPROD264C	Check recycle wash process	10
PMBPROD265C	Operate portable vulcanising equipment	20
PMBPROD266B	Prepare tyre casings for retreading	20
PMBPROD267B	Operate steel cutting equipment	15
PMBPROD268B	Operate bead coiling equipment	15
PMBPROD270B	Operate injection blow moulding equipment	70
PMBPROD280B	Operate resin-glass depositor equipment	30
PMBPROD281B	Finish composite products	30



National ID	Training Package Unit Title	Nominal Hours
PMBPROD282B	Assemble mould	15
PMBPROD283B	Demould product	15
PMBPROD284B	Operate open flame moulding equipment	40
PMBPROD285A	Operate computer controlled equipment	40
PMBPROD287B	Weld plastics materials	50
PMBPROD290B	Operate filament winding equipment	30
PMBPROD291B	Operate resin infusion moulding equipment	30
PMBPROD292B	Operate pultrusion equipment	40
PMBPROD293B	Operate vacuum bagging equipment	30
PMBPROD294B	Operate resin transfer moulding equipment	30
PMBPROD295B	Operate composite sheeting equipment	30
PMBPROD296B	Operate centrifugal casting equipment	30
PMBPROD297B	Operate equipment using moulding compounds	30
PMBPROD298B	Operate equipment using pre-preg material	30
PMBPROD300B	Produce products	40
PMBPROD301C	Draw wire	52
PMBPROD302C	Bunch and strand wire	26
PMBPROD303C	Lay up and tape cables	26
PMBPROD304C	Wind products onto drums	26
PMBPROD305C	Colour optical fibre	13
PMBPROD306B	Prepare and start equipment for production	20
PMBPROD307C	Produce calendered products	52
PMBPROD308B	Take a machine out of production	20
PMBPROD309C	Produce electroplated products	52
PMBPROD310C	Produce injection moulded products	52
PMBPROD311C	Produce blow moulded products	52
PMBPROD312C	Produce continuous thermoforming products	52
PMBPROD313C	Produce extruded products	52
PMBPROD314C	Produce compression moulded products	52
PMBPROD315C	Produce polyurethane foam	52
PMBPROD316C	Produce blown film	52
PMBPROD317C	Print and decorate rigid products	52
PMBPROD318C	Build first stage tyres	52
PMBPROD319C	Build up rollers	52
PMBPROD320C	Produce foam injected mouldings	52
PMBPROD321B	Produce rotational moulded products	52
PMBPROD323C	Produce powder coated products	52
PMBPROD324B	Inspect tyres for retreading	13
PMBPROD325B	Lay on tyre retreads	26
PMBPROD326B	Inspect tyres	20
PMBPROD327B	Produce finished tyres	40
PMBPROD328C	Produce sheet feed vacuum forming products	52
PMBPROD329C	Produce polystyrene shape moulded products	52
PMBPROD330A	Make moulds for formed products	50
PMBPROD331C	Produce printed and decorated film	52
PMBPROD332C	Produce thermally bent products	13
PMBPROD333B	Convert plastic film	60
PMBPROD334A	Produce products using twin screw extruders	70
PMBPROD335C	Build second stage tyres	30
PMBPROD339A	Produce reinforced conveyor belts	50
PMBPROD343C	Shut down plant area	13
PMBPROD347B	Produce composites using hand lamination	40
PMBPROD349B	Produce liquid surface coated products	40
PMBPROD352A	Produce compounded materials	40
PMBPROD353B	Compound materials using an internal mill blender	30

National ID	Training Package Unit Title	Nominal Hours
PMBPROD354B	Compound materials using an open mill blender	30
PMBPROD355B	Make pattern/plug for composites moulds	60
PMBPROD356C	Construct moulds for composite products	52
PMBPROD357C	Construct jigs and fixtures	52
PMBPROD358C	Develop patterns	52
PMBPROD360B	Produce centrifugally cast polyurethane products	40
PMBPROD362B	Produce gravity cast polyurethane products	40
PMBPROD367B	Remove and replace conveyor belts	10
PMBPROD368B	Repair conveyor belt carcass	30
PMBPROD369B	Repair conveyor belt covers	30
PMBPROD370B	Produce injection blow moulded products	80
PMBPROD372B	Produce fibre optic preforms	40
PMBPROD373B	Draw optical fibre	40
PMBPROD375B	Vulcanise products using an autoclave	40
PMBPROD376A	Splice steel cord conveyor belts	40
PMBPROD377A	Splice fabric ply conveyor belts	40
PMBPROD378A	Splice solid woven conveyor belts	40
PMBPROD380B	Produce composites using chopper gun/depositor	52
PMBPROD384A	Operate multi-axis router	60
PMBPROD385A	Program computer controlled equipment	40
PMBPROD387B	Produce welded plastics materials	40
PMBPROD390B	Produce composites using filament winding	30
PMBPROD391B	Produce composites using resin infusion	30
PMBPROD392B	Produce composites using pultrusion	30
PMBPROD393B	Produce composites using vacuum bagging	30
PMBPROD394B	Produce composites using resin transfer moulding	30
PMBPROD395B	Produce composite sheet products	30
PMBPROD396B	Produce composites using centrifugal casting	30
PMBPROD397B	Produce composites using moulding compounds	30
PMBPROD398B	Produce composites using pre-pregs	30
PMBPROD430B	Trial a new die/tool	60
PMBPROD431B	Trial a new, advanced or complex mould	40
PMBTECH301B	Use material and process knowledge to solve problems	40
PMBTECH302A	Modify existing compounds	40
PMBTECH303A	Make minor modifications to products	40
PMBTECH401B	Predict polymer properties and characteristics	60
PMBTECH402B	Set advanced or complex dies	50
PMBTECH403B	Test fibre- composites materials and laminates	40
PMBTECH404B	Mould chemical resistant and/or fire retardant fibre-composites	40
PMBTECH405B	Repair damaged fibre-composites structures	50
PMBTECH406A	Diagnose production equipment problems	50
PMBTECH501B	Analyse equipment performance	50
PMBTECH502B	Review and analyse production trials and specify retrials	50
PMBTECH503B	Determine rheology and output of plastics materials from processing equipment	80
PMBTECH504B	Determine heat transfer loads for processing equipment	50
PMBTECH505B	Choose polymer materials for an application	50
PMBTECH506B	Analyse the design of products and tools	80
PMBTECH507B	Develop fibre composite products using cored- laminate techniques	50
PMBTECH508A	Develop a new compound	60
PMBTECH509A	Modify an existing product	50
PMBTECH510A	Analyse failure in polymeric materials	60
PMBTECH601B	Develop a new product	200
PMBTECH602B	Develop a new die or tool	200
PMBTECH603B	Design structural/mechanical polymer components	100

National ID	Training Package Unit Title	Nominal Hours
PMBWASTE101C	Collect waste for recycling or safe disposal	26
PMBWASTE302C	Coordinate waste disposal	26
PMBWELD301B	Butt weld polyethylene plastic pipelines	20
PMBWELD302B	Electrofusion weld polyethylene pipelines	20
PMBWELD303B	Install polyethylene (non- pressure) drainage pipelines	20
PMBWELD304B	Design polyethylene (non- pressure) drainage pipelines	15
PMBWELD305B	Install polyethylene plastic pressure pipelines	20
PMBWELD306B	Design polyethylene plastic pressure pipelines	20
PMBWELD307B	Install high temperature plastic pressure pipelines	25
PMBWELD308B	Install PVC plastic pressure pipelines	20
PMBWELD309B	Weld plastic using extrusion techniques	20
PMBWELD310B	Design PVC plastic pressure pipelines	20
PMBWELD311B	Design high temperature plastic pressure pipelines	20
TAADEL301A	Provide training through instruction and demonstration of work skills	40

## Mapping Qualifications

The following table provides an overview of the qualifications from the PMB07 Plastics, Rubber and Cablemaking Training Package which replace qualifications from the existing version of the PMB01 Plastics, Rubber and Cablemaking Training Package.

PMB01 Current Qualification			PMB07 Replacement Qualification		
National ID	Qualification Title	Hours	National ID	Qualification Title	Hours
PMB20101	Certificate II in Plastics	420	PMB20107	Certificate II in Polymer Processing	420
PMB20201	Certificate II in Rubber	420	PMB20107	Certificate II in Polymer Processing	420
PMB20301	Certificate II in Cablemaking	0	PMB20107	Certificate II in Polymer Processing	420
PMB30101	Certificate III in Plastics	770	PMB30107	Certificate III in Polymer Processing	770
PMB30201	Certificate III in Rubber	770	PMB30107	Certificate III in Polymer Processing	770
PMB30301	Certificate III in Cablemaking	0	PMB30107	Certificate III in Polymer Processing	770
PMB40101	Certificate IV in Polymer Technology	234	PMB40107	Certificate IV in Polymer Technology	1093
PMB50101	Diploma of Polymer Technology	0	PMB50107	Diploma of Polymer Technology	832
PMB60101	Advanced Diploma of Polymer Technology	0	PMB60107	Advanced Diploma of Polymer Technology	1570

The following table provides an overview of the qualifications from the MSA07 Manufacturing Training Package Version 2 which replaces qualifications from the existing version of the Plastics, Rubber and Cablemaking Training Package PMB01

PMB01 Current Qualification			MSA07 V2 Replacement Qualification		
National ID	Qualification Title	Hours	National ID	Qualification Title	Hours
PMB10101	Certificate I in Plastics, Rubber and Cablemaking	Equivalent outcomes	MSA10207	Certificate I in Process Manufacturing	288
PMB20401	Certificate II in Process Manufacturing	Equivalent outcomes	MSA20107	Certificate II in Process Manufacturing	427
PMB30401	Certificate III in Process Manufacturing	Equivalent outcomes	MSA30107	Certificate III in Process Manufacturing	558

## Mapping Units of Competency

The following table provides an overview of the units of competency from the PMB01 Plastics, Rubber and Cablemaking Training Package which are replaced by the units of competency from the PMB07 Plastics, Rubber and Cablemaking Training Package.

PMB01			PMB07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
	No Previous Equivalent		PMBTECH510A	Analyse failure in polymeric materials	60
	No Previous Equivalent		PMBPROD242A	Bond polymers to surfaces	40
	No Previous Equivalent		PMBPROD239A	Build reinforced conveyor belts	40
	No Previous Equivalent		PMBTECH508A	Develop a new compound	60
	No Previous Equivalent		PMBTECH406A	Diagnose production equipment problems	50
	No Previous Equivalent		PMBTECH303A	Make minor modifications to products	40
	No Previous Equivalent		PMBPROD330A	Make moulds for formed products	50
	No Previous Equivalent		PMBTECH509A	Modify an existing product	50
	No Previous Equivalent		PMBTECH302A	Modify existing compounds	40
	No Previous Equivalent		PMBPROD285A	Operate computer controlled equipment	40
	No Previous Equivalent		PMBPROD384A	Operate multi-axis router	60
	No Previous Equivalent		PMBPROD238A	Perform creel rack operations	30
	No Previous Equivalent		PMBPROD352A	Produce compounded materials	40
	No Previous Equivalent		PMBPROD334A	Produce products using twin screw extruders	70
	No Previous Equivalent		PMBPROD339A	Produce reinforced conveyor belts	50
	No Previous Equivalent		PMBPROD385A	Program computer controlled equipment	40
MEM11.5AA	Pick and Process order	36	MEM11005B	Pick and process order	36
MEM11.7AA	Administer inventory procedures	36	MEM11007B	Administer inventory procedures	36
MEM13.3AA	Work safely with industrial chemicals and materials	18	MEM13003B	Work safely with industrial chemicals and materials	18
MEM15.1AA	Perform basic statistical quality control	18	MEM15001B	Perform basic statistical quality control	18
MEM15.3AA	Use improvement processes in team activities	36	MEM15003B	Use improvement processes in team activities	36
MEM18.1AB	Use hand tools	18	MEM18001C	Use hand tools	18
MEM18.2AA	Use power tools/hand held operations	18	MEM18002B	Use power tools/hand held operations	18
MEM9.2AA	Interpret technical drawing	36	MEM09002B	Interpret technical drawing	36
MEM9.3AA	Prepare basic engineering drawing	72	MEM09003B	Prepare basic engineering drawing	72
PMBCALC101A	Make measurements	26	MSAPMOPS101A	Make measurements	26
PMBCALC303B	Use precision measuring equipment	26	MEM12023A	Perform engineering measurements	48

PMB01			PMB07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
PMBCOMM102B	Complete workplace documents	26	MSAPMSUP102A	Communicate in the workplace	26
PMBCOMP201B	Use computers in the workplace	26	MSAPMOPS212A	Use enterprise computers or data systems	26
PMBENV100A	Identify and minimise environmental hazards	20	MSAPMSUP172A	Identify and minimise environmental hazards	20
PMBFIN201B	Finish products and components	26	PMBFIN201C	Finish products and components	26
PMBFIN202B	Fit attachments to products	26	PMBFIN202C	Fit attachments to products	26
PMBFIN203B	Repair product imperfections	26	PMBFIN203C	Repair product imperfections	26
PMBFIN205B	Hand decorate products	52	PMBFIN205C	Hand decorate products	52
PMBHAN103B	Shift materials safely by hand	26	PMBHAN103C	Shift materials safely by hand	26
PMBHAN201B	Process orders and despatch products	26	MSAPMSUP201A	Receive or despatch goods	26
PMBHAN202B	Load and unload goods	30	MSAPMSUP273A	Handle goods	30
PMBHAN204B	Package goods/materials	26	MSAPMSUP204A	Pack products or materials	26
PMBHAN205B	Transfer loads with slings	26	MSAPMSUP205A	Transfer loads	26
PMBHAN208B	Store products	26	PMBHAN208C	Store products	26
PMBHANDLE03A	Shift materials safely by hand	26	PMBHAN103C	Shift materials safely by hand	26
PMBMAINT101B	Conduct housekeeping activities	26	MSAPMSUP101A	Clean workplace or equipment	26
PMBMAINT202B	Undertake basic maintenance	26	MSAPMSUP240A	Undertake minor maintenance	26
PMBMAINT303B	Identify equipment faults	26	MSAPMSUP303A	Identify equipment faults	26
PMBMAINT404B	Co-ordinate the conduct of maintenance	26	MSAPMOPS404A	Co-ordinate maintenance	26
PMBMAINT405A	Identify problems in fluid power systems	40	MSAPMOPS405A	Identify problems in fluid power system	40
PMBMAINT406A	Identify problems in electronic control systems	40	MSAPMOPS406A	Identify problems in electronic control systems	40
PMBOHS101B	Follow OH&S policies and procedures	26	MSAPMOHS100A	Follow OHS procedures	26
PMBOHS204B	Apply emergency/incident procedures	26	MSAPMOHS205A	Control minor incidents	26
PMBOHS204B	Apply emergency/incident procedures	26	MSAPMOHS110A	Follow emergency response procedures	26
PMBOHS204B	Apply emergency/incident procedures	26	MSAPMOHS212A	Undertake first response to fire incidents	26
PMBOHS204B	Apply emergency/incident procedures	26	MSAPMOHS210A	Undertake first response to non-fire incidents	26
PMBOHS207B	Implement and monitor OH&S policies and procedures	26	MSAPMOHS200A	Work safely	26
PMBOHS409A	Establish, maintain & evaluate an OH&S system	40	MSAPMOHS300A	Facilitate the implementation of OHS for a work group	40
PMBORG205B	Receive goods	26	MSAPMSUP201A	Receive or despatch goods	26
PMBORG403B	Conduct trials on products or processes	26	MSAPMOPS401A	Trial new process or product	26
PMBPREP201A	Prepare moulds for composites production	20	PMBPREP201B	Prepare moulds for composites production	20
PMBPREP205B	Assemble materials and equipment for production	26	PMBPREP205C	Assemble materials and equipment for production	26
PMBPREP206B	Prepare materials to formulae	26	PMBPREP206C	Prepare materials to formulae	26

PMB01			PMB07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
PMBPREP301B	Set up and prepare for production	13	PMBPREP301C	Set up and prepare for production	13
PMBPREP303B	Set up equipment for continuous operation	26	PMBPREP303C	Set up equipment for continuous operation	26
PMBPREP304B	Change equipment dies	26	PMBPREP304C	Set a die	26
PMBPREP305A	Change extrusion die and calibration setup	60	PMBPREP305B	Change extrusion die and setup	60
PMBPREP508A	Produce drawings	140	MEM09003B	Prepare basic engineering drawing	72
PMBPROD101A	Use equipment	30	MSAPMOPS100A	Use equipment	30
PMBPROD102A	Perform tasks to support production	30	MSAPMOPS102A	Perform tasks to support production	30
PMBPROD200A	Operate equipment	40	MSAPMOPS200A	Operate equipment	40
PMBPROD206A	Operate ancillary equipment	40	PMBPROD206B	Operate ancillary equipment	40
PMBPROD207A	Operate calender	70	PMBPROD207B	Operate Calendar	70
PMBPROD209B	Operate cable winding equipment	26	PMBPROD209C	Operate cable winding equipment	26
PMBPROD210A	Operate injection moulding equipment	60	PMBPROD210B	Operate injection moulding equipment	60
PMBPROD211A	Operate blow moulding equipment	60	PMBPROD211B	Operate blow moulding equipment	60
PMBPROD212A	Operate thermoforming equipment	60	PMBPROD212B	Operate thermoforming equipment	60
PMBPROD213A	Operate extruders	60	PMBPROD213B	Operate extruders	60
PMBPROD216A	Operate blown film equipment	60	PMBPROD216B	Operate blown film equipment	60
PMBPROD217A	Operate printing equipment	20	PMBPROD217B	Operate printing equipment	20
PMBPROD221A	Operate rotational moulding equipment	60	PMBPROD221B	Operate rotational moulding equipment	60
PMBPROD229A	Operate polystyrene shape moulding equipment	40	PMBPROD229B	Operate polystyrene shape moulding equipment	40
PMBPROD230B	Monitor process operations	26	MSAPMSUP230A	Monitor process operations	26
PMBPROD233A	Operate film conversion equipment	60	PMBPROD233B	Operate film conversion equipment	60
PMBPROD235B	Use materials and process knowledge to complete work operations	26	PMBPROD235C	Use materials and process knowledge to complete work operations	26
PMBPROD236B	Operate hand held air/power equipment for production processes	13	PMBPROD236C	Operate hand held air/power equipment for production processes	13
PMBPROD237B	Splice cables	52	PMBPROD237C	Splice cables	52
PMBPROD240B	Cut materials	13	PMBPROD240C	Cut materials	26
PMBPROD241B	Lay up rubber lining or lag pulleys	0	PMBPROD241C	Lay up rubber lining or lag pulleys	30
PMBPROD245B	Fabricate materials	52	PMBPROD245C	Fabricate materials	52
PMBPROD246B	Hand mix materials	13	PMBPROD246C	Hand mix materials	13
PMBPROD247B	Hand lay up composites	52	PMBPROD247C	Hand lay up composites	52
PMBPROD248B	Prepare surfaces for coating	26	PMBPROD248C	Prepare surfaces for coating	26
PMBPROD249A	Apply liquid surface coatings	40	PMBPROD249B	Apply liquid surface coatings	40
PMBPROD251A	Apply gel coat or other polymer surface finish	20	PMBPROD251B	Apply gel coat or other polymer surface finish	20
PMBPROD252B	Operate compounding equipment	26	PMBPROD252C	Operate compounding equipment	26

PMB01			PMB07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
PMBPROD253B	Operate an internal mill blender	26	PMBPROD253C	Operate an internal mill blender	26
PMBPROD254B	Operate an open mill blender	26	PMBPROD254C	Operate an open mill blender	26
PMBPROD255B	Operate mixing equipment	26	PMBPROD255C	Operate mixing equipment	26
PMBPROD259B	Operate granulating equipment	26	PMBPROD259C	Operate granulating equipment	26
PMBPROD261A	Operate continuous vulcanising equipment	20	PMBPROD261B	Operate continuous vulcanising equipment	20
PMBPROD262A	Operate tyre curing equipment	20	PMBPROD262B	Operate tyre curing equipment	20
PMBPROD263A	Operate retread curing equipment	20	PMBPROD263B	Operate retread curing equipment	20
PMBPROD264B	Check recycle wash process	10	PMBPROD264C	Check recycle wash process	10
PMBPROD265B	Operate portable vulcanising equipment	20	PMBPROD265C	Operate portable vulcanising equipment	20
PMBPROD266A	Prepare tyre casings for retreading	20	PMBPROD266B	Prepare tyre casings for retreading	20
PMBPROD267A	Operate steel cutting equipment	15	PMBPROD267B	Operate steel cutting equipment	15
PMBPROD268A	Operate bead coiling equipment	15	PMBPROD268B	Operate bead coiling equipment	15
PMBPROD270A	Operate injection blow moulding equipment	70	PMBPROD270B	Operate injection blow moulding equipment	70
PMBPROD280A	Operate resin-glass depositor equipment	30	PMBPROD280B	Operate resin-glass depositor equipment	30
PMBPROD281A	Finish composite products	30	PMBPROD281B	Finish composite products	30
PMBPROD282A	Assemble mould	15	PMBPROD282B	Assemble mould	15
PMBPROD283A	Demould product	15	PMBPROD283B	Demould product	15
PMBPROD284A	Operate open flame moulding equipment	40	PMBPROD284B	Operate open flame moulding equipment	40
PMBPROD287A	Weld plastics materials	50	PMBPROD287B	Weld plastics materials	50
PMBPROD290A	Operate filament winding equipment	30	PMBPROD290B	Operate filament winding equipment	30
PMBPROD291A	Operate resin infusion moulding equipment	30	PMBPROD291B	Operate resin infusion moulding equipment	30
PMBPROD292A	Operate pultrusion equipment	40	PMBPROD292B	Operate pultrusion equipment	40
PMBPROD293A	Operate vacuum bagging equipment	30	PMBPROD293B	Operate vacuum bagging equipment	30
PMBPROD294A	Operate resin transfer moulding equipment	30	PMBPROD294B	Operate resin transfer moulding equipment	30
PMBPROD295A	Operate composite sheeting equipment	30	PMBPROD295B	Operate composite sheeting equipment	30
PMBPROD296A	Operate centrifugal casting equipment	30	PMBPROD296B	Operate centrifugal casting equipment	30
PMBPROD297A	Operate equipment using moulding compounds	30	PMBPROD297B	Operate equipment using moulding compounds	30
PMBPROD298A	Operate equipment using pre-preg material	30	PMBPROD298B	Operate equipment using pre-preg material	30
PMBPROD300A	Produce products	40	PMBPROD300B	Produce products	40
PMBPROD301B	Draw wire	52	PMBPROD301C	Draw wire	52
PMBPROD302B	Bunch and strand wire	26	PMBPROD302C	Bunch and strand wire	26
PMBPROD303B	Lay up and tape cables	26	PMBPROD303C	Lay up and tape cables	26
PMBPROD304B	Wind products onto drums	26	PMBPROD304C	Wind products onto drums	26
PMBPROD305B	Colour optical fibre	13	PMBPROD305C	Colour optical fibre	13



PMB01			PMB07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
PMBPROD306A	Prepare and start equipment for production	20	PMBPROD306B	Prepare and start equipment for production	20
PMBPROD307B	Produce calendered products	52	PMBPROD307C	Produce calendered products	52
PMBPROD308A	Take a machine out of production	20	PMBPROD308B	Take a machine out of production	20
PMBPROD309B	Produce electroplated products	52	PMBPROD309C	Produce electroplated products	52
PMBPROD310B	Produce injection moulded products	52	PMBPROD310C	Produce injection moulded products	52
PMBPROD311B	Produce blow moulded products	52	PMBPROD311C	Produce blow moulded products	52
PMBPROD312B	Produce continuous thermoforming products	52	PMBPROD312C	Produce continuous thermoforming products	52
PMBPROD313B	Produce extruded products	52	PMBPROD313C	Produce extruded products	52
PMBPROD314B	Produce compression moulded products	52	PMBPROD314C	Produce compression moulded products	52
PMBPROD315B	Produce polyurethane foam	52	PMBPROD315C	Produce polyurethane foam	52
PMBPROD316B	Produce blown film	52	PMBPROD316C	Produce blown film	52
PMBPROD317B	Print and decorate rigid products	52	PMBPROD317C	Print and decorate rigid products	52
PMBPROD318B	Build first stage tyres	52	PMBPROD318C	Build first stage tyres	52
PMBPROD319B	Build up rollers	52	PMBPROD319C	Build up rollers	52
PMBPROD320B	Produce foam injected mouldings	52	PMBPROD320C	Produce foam injected mouldings	52
PMBPROD321A	Produce rotational moulded products	52	PMBPROD321B	Produce rotational moulded products	52
PMBPROD323B	Produce powder coated products	52	PMBPROD323C	Produce powder coated products	52
PMBPROD324A	Inspect tyres for retreading	13	PMBPROD324B	Inspect tyres for retreading	13
PMBPROD325A	Lay on tyre retreads	26	PMBPROD325B	Lay on tyre retreads	26
PMBPROD326A	Inspect tyres	20	PMBPROD326B	Inspect tyres	20
PMBPROD327A	Produce finished tyres	40	PMBPROD327B	Produce finished tyres	40
PMBPROD328B	Produce sheet feed vacuum forming products	52	PMBPROD328C	Produce sheet feed vacuum forming products	52
PMBPROD329B	Produce polystyrene shape moulded products	52	PMBPROD329C	Produce polystyrene shape moulded products	52
PMBPROD331B	Produce printed and decorated film	52	PMBPROD331C	Produce printed and decorated film	52
PMBPROD332B	Produce thermally bent products	13	PMBPROD332C	Produce thermally bent products	13
PMBPROD333A	Convert plastic film	60	PMBPROD333B	Convert plastic film	60
PMBPROD335B	Build second stage tyres	30	PMBPROD335C	Build second stage tyres	30
PMBPROD343B	Shut down plant or plant area	13	PMBPROD343C	Shut down plant area	26
PMBPROD347A	Produce composites using hand lamination	40	PMBPROD347B	Produce composites using hand lamination	40
PMBPROD349A	Produce liquid surface coated products	40	PMBPROD349B	Produce liquid surface coated products	40
PMBPROD353A	Compound materials using an internal mill blender	30	PMBPROD353B	Compound materials using an internal mill blender	30
PMBPROD354A	Compound materials using an open mill blender	30	PMBPROD354B	Compound materials using an open mill blender	30
PMBPROD355A	Make pattern/plug for composites moulds	60	PMBPROD355B	Make pattern/plug for composites moulds	60
PMBPROD356B	Construct composite moulds	52	PMBPROD356C	Construct moulds for composite products	52

PMB01			PMB07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
PMBPROD357B	Construct jigs and fixtures	52	PMBPROD357C	Construct jigs and fixtures	52
PMBPROD358B	Develop patterns	52	PMBPROD358C	Develop patterns	52
PMBPROD360A	Produce centrifugally cast polyurethane products	40	PMBPROD360B	Produce centrifugally cast polyurethane products	40
PMBPROD362A	Produce gravity cast polyurethane products	40	PMBPROD362B	Produce gravity cast polyurethane products	40
PMBPROD363A	Splice conveyor belts on site	30	MSAPMOPS363A	Organise on site work	30
PMBPROD367A	Remove and replace belts	10	PMBPROD367B	Remove and replace conveyor belts	10
PMBPROD368A	Repair conveyor belt carcass	30	PMBPROD368B	Repair conveyor belt carcass	30
PMBPROD369A	Repair conveyor belt covers	30	PMBPROD369B	Repair conveyor belt covers	30
PMBPROD370A	Produce injection blow moulded products	80	PMBPROD370B	Produce injection blow moulded products	80
PMBPROD372A	Produce fibre optic preforms	40	PMBPROD372B	Produce fibre optic preforms	40
PMBPROD373A	Draw optical fibre	40	PMBPROD373B	Draw optical fibre	40
PMBPROD374A	Splice new belts or used belts off site	40	PMBPROD377A	Splice fabric ply conveyor belts	40
PMBPROD374A	Splice new belts or used belts off site	40	PMBPROD378A	Splice solid woven conveyor belts	40
PMBPROD374A	Splice new belts or used belts off site	40	PMBPROD376A	Splice steel cord conveyor belts	40
PMBPROD375A	Vulcanise products using an autoclave	40	PMBPROD375B	Vulcanise products using an autoclave	40
PMBPROD380A	Produce composites using chopper gun/depositor	52	PMBPROD380B	Produce composites using chopper gun/depositor	52
PMBPROD387A	Produce welded plastics materials	40	PMBPROD387B	Produce welded plastics materials	40
PMBPROD390A	Produce composites using filament winding	30	PMBPROD390B	Produce composites using filament winding	30
PMBPROD391A	Produce composites using resin infusion	30	PMBPROD391B	Produce composites using resin infusion	30
PMBPROD392A	Produce composites using pultrusion	30	PMBPROD392B	Produce composites using pultrusion	30
PMBPROD393A	Produce composites using vacuum bagging	30	PMBPROD393B	Produce composites using vacuum bagging	30
PMBPROD394A	Produce composites using resin transfer moulding	30	PMBPROD394B	Produce composites using resin transfer moulding	30
PMBPROD395A	Produce composite sheet products	30	PMBPROD395B	Produce composite sheet products	30
PMBPROD396A	Produce composites using centrifugal casting	30	PMBPROD396B	Produce composites using centrifugal casting	30
PMBPROD397A	Produce composites using moulding compounds	30	PMBPROD397B	Produce composites using moulding compounds	30
PMBPROD398A	Produce composites using pre-pregs	30	PMBPROD398B	Produce composites using pre-pregs	30
PMBPROD430A	Trial a new die/tool	60	PMBPROD430B	Trial a new die/tool	60
PMBPROD431A	Trial a new, advanced or complex mould	40	PMBPROD431B	Trial a new, advanced or complex mould	40
PMBQUAL101A	Apply quality processes	26	MSAPMSUP100A	Apply workplace procedures	26
PMBQUAL290A	Monitor and maintain product quality	52	MSAPMSUP200A	Achieve work outcomes	52
PMBQUAL291A	Participate in continuous improvement	26	MSAPMSUP291A	Participate in continuous improvement	26

PMB01			PMB07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
PMBQUAL390A	Solve problems using 'quality tools'	40	MSAPMSUP390A	Use structured problem solving tools	40
PMBQUAL400A	Develop and monitor quality systems	50	MSAPMSUP400A	Develop and monitor quality systems	50
PMBSUP272A	Identify and act upon hazards in the workplace	0	MSAPMOHS200A	Work safely	26
PMBSUP301A	Apply HACCP to the workplace	30	MSAPMSUP301A	Apply HACCP to the workplace	30
PMBSUP383A	Facilitate a team	20	MSAPMSUP383A	Facilitate a team	20
PMBTECH301A	Use material and process knowledge to solve problems	40	PMBTECH301B	Use material and process knowledge to solve problems	40
PMBTECH401A	Predict polymer properties and characteristics	60	PMBTECH401B	Predict polymer properties and characteristics	60
PMBTECH402A	Set up and remove complex dies	50	PMBTECH402B	Set advanced or complex dies	50
PMBTECH403A	Test fibre-composites materials and laminates	40	PMBTECH403B	Test fibre- composites materials and laminates	40
PMBTECH404A	Mould chemical resistant and/or fire retardant fibre-composites	40	PMBTECH404B	Mould chemical resistant and/or fire retardant fibre-composites	40
PMBTECH405A	Repair damaged fibre-composites structures	50	PMBTECH405B	Repair damaged fibre-composites structures	50
PMBTECH501A	Analyse equipment performance	50	PMBTECH501B	Analyse equipment performance	50
PMBTECH502A	Review and analyse production trials and specify retrials	50	PMBTECH502B	Review and analyse production trials and specify retrials	50
PMBTECH503A	Determine rheology and output of plastics materials from processing equipment	80	PMBTECH503B	Determine rheology and output of plastics materials from processing equipment	80
PMBTECH504A	Determine heat transfer loads for processing equipment	50	PMBTECH504B	Determine heat transfer loads for processing equipment	50
PMBTECH505A	Choose polymer materials for an application	50	PMBTECH505B	Choose polymer materials for an application	50
PMBTECH506A	Analyse the design of products and tools	80	PMBTECH506B	Analyse the design of products and tools	80
PMBTECH507A	Develop fibre composite products using cored-laminate techniques	50	PMBTECH507B	Develop fibre composite products using cored-laminate techniques	50
PMBTECH601A	Develop a new product	200	PMBTECH601B	Develop a new product	200
PMBTECH602A	Develop a new die or tool	200	PMBTECH602B	Develop a new die or tool	200
PMBTECH603A	Design structural/mechanical polymer components	100	PMBTECH603B	Design structural/mechanical polymer components	100
PMBTRAIN201A	Assist in the provision of on the job training	30	TAADEL301A	Provide training through instruction and demonstration of work skills	40
PMBWASTE101B	Collect waste for recycling or safe disposal	26	PMBWASTE101C	Collect waste for recycling or safe disposal	26
PMBWASTE302B	Coordinate waste disposal	26	PMBWASTE302C	Coordinate waste disposal	26
PMBWELD301A	Butt weld polyethylene plastic pipelines	20	PMBWELD301B	Butt weld polyethylene plastic pipelines	20
PMBWELD302A	Electrofusion weld polyethylene pipelines	20	PMBWELD302B	Electrofusion weld polyethylene pipelines	20
PMBWELD303A	Install polyethylene (non-pressure) drainage	20	PMBWELD303B	Install polyethylene (non- pressure) drainage	20

PMB01			PMB07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
	pipelines			pipelines	
PMBWELD304A	Design polyethylene (non-pressure) drainage pipelines	15	PMBWELD304B	Design polyethylene (non- pressure) drainage pipelines	15
PMBWELD305A	Install polyethylene plastic pressure pipelines	20	PMBWELD305B	Install polyethylene plastic pressure pipelines	20
PMBWELD306A	Design polyethylene plastic pressure pipelines	20	PMBWELD306B	Design polyethylene plastic pressure pipelines	20
PMBWELD307A	Install high temperature plastic pressure pipelines	25	PMBWELD307B	Install high temperature plastic pressure pipelines	25
PMBWELD308A	Install PVC plastic pressure pipelines	20	PMBWELD308B	Install PVC plastic pressure pipelines	20
PMBWELD309A	Weld plastics using extrusion and injection techniques	20	PMBWELD309B	Weld plastic using extrusion techniques	20
PMBWELD310A	Design PVC plastic pressure pipelines	20	PMBWELD310B	Design PVC plastic pressure pipelines	20
PMBWELD311A	Design high temperature plastic pressure pipelines	20	PMBWELD311B	Design high temperature plastic pressure pipelines	20
PMBWKOPS101B	Apply work procedures and practices	26	MSAPMSUP100A	Apply workplace procedures	26
PMBWKOPS106B	Work with others in a team	26	MSAPMSUP106A	Work in a team	26
PMBWKOPS305B	Perform shift handover	13	MSAPMSUP210A	Process and record information	13
PMBWKOPS309A	Maintain and organise workplace records	26	MSAPMSUP309A	Maintain and organise workplace records	26
PMBWKOPS402B	Apply workplace procedures to improve workplace performance	26	MCMS401A	Ensure process improvements are sustained	50

## Traineeships and Apprenticeships

The following table provides a summary of the qualifications in the PMB07 Plastics, Rubber and Cablemaking Training Package7 and the accredited traineeship and apprenticeship courses they will replace.

PMB01 Current Qualification				PMB07 Replacement Qualification		
National ID	Qualification Title	TRAINEESHIP/APPRENTICESHIP	Hours	National ID	Qualification Title	Hours
<b>Traineeship</b>						
PMB20101	Certificate II in Plastics	Plastics (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20101	Certificate II in Plastics	Plastics - Film (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20101	Certificate II in Plastics	Plastics - Blow moulding (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20101	Certificate II in Plastics	Plastics - Composites (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20101	Certificate II in Plastics	Plastics - Extrusion (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20101	Certificate II in Plastics	Plastics - Fabrication (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20101	Certificate II in Plastics	Plastics - Injection moulding (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20101	Certificate II in Plastics	Plastics - Thermoforming (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20101	Certificate II in Plastics	Plastics - Rotational moulding (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20101	Certificate II in Plastics	Plastics - Polystyrene (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20201	Certificate II in Rubber	Rubber (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20201	Certificate II in Rubber	Rubber - Belt splicing (Level 2)	420	PMB20107	Certificate II in Polymer Processing	420
PMB20201	Certificate II in Rubber	Rubber - Rubber lining (Level 2)	420	PMB20107	Certificate II in Polymer	420

PMB01 Current Qualification				PMB07 Replacement Qualification		
National ID	Qualification Title	TRAINEESHIP/APPRENTICESHIP	Hours	National ID	Qualification Title	Hours
					Processing	
PMB30101	Certificate III in Plastics	Plastics (Level 3)	350	PMB30107	Certificate III in Polymer Processing	770
PMB30101	Certificate III in Plastics	Plastics - Film (Level 3)	350	PMB30107	Certificate III in Polymer Processing	770
PMB30101	Certificate III in Plastics	Plastics - Blow moulding (Level 3)	350	PMB30107	Certificate III in Polymer Processing	770
PMB30101	Certificate III in Plastics	Plastics - Extrusion (Level 3)	350	PMB30107	Certificate III in Polymer Processing	770
PMB30101	Certificate III in Plastics	Plastics - Fabrication (Level 3)	350	PMB30107	Certificate III in Polymer Processing	770
PMB30101	Certificate III in Plastics	Plastics - Injection moulding (Level 3)	350	PMB30107	Certificate III in Polymer Processing	770
PMB30101	Certificate III in Plastics	Plastics - Thermoforming (Level 3)	350	PMB30107	Certificate III in Polymer Processing	770
PMB30101	Certificate III in Plastics	Plastics - Rotational moulding (Level 3)	350	PMB30107	Certificate III in Polymer Processing	770
PMB30101	Certificate III in Plastics	Plastics - Polystyrene (Level 3)	350	PMB30107	Certificate III in Polymer Processing	770
PMB30201	Certificate III in Rubber	Rubber (Level 3)	350	PMB30107	Certificate III in Polymer Processing	770
PMB30201	Certificate III in Rubber	Rubber - Belt splicing (Level 3)	350	PMB30107	Certificate III in Polymer Processing	770
PMB30201	Certificate III in Rubber	Rubber - Rubber lining (Level 3)	350	PMB30107	C	770
PMB40101	Certificate IV in Polymer Technology	Polymer technology (Level 4)	234	PMB40107	Certificate IV in Polymer Technology	1093
<b>Apprenticeship</b>						
PMB30101	Certificate III in Plastics	Composites laminating	719	PMB30107	Certificate III in Plastics	770