

PMB Plastics, Rubber and Cablemaking

TRAINING PACKAGE

Version 1.00

WA NOMINAL HOURS GUIDE

Introduction

This Guide has been generated to enable the stakeholders in this Industry in Western Australia to participate in the managed implementation of the National PMB 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 1.00 of the PMB Plastics, Rubber and Cablemaking was released by Training.Gov.Au (TGA) on the 22/06/2016.

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications in accordance with the Standards for RTOs. For further information visit the Training Accreditation Council website www.tac.wa.gov.au.

Nominal Hours

Nominal hours are the hours of training notionally required to achieve the outcomes of units of competency.

Nominal hours are identified for nationally endorsed qualifications. Nominal hours may vary for a qualification depending on the selection of units of competency.

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

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Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the industry.

National Code	National Title	Nominal Hours
PMB20116	Certificate II in Polymer Processing	420
PMB30116	Certificate III in Polymer Processing	770
PMB40116	Certificate IV in Polymer Technology	1093
PMB50116	Diploma of Polymer Technology	692
PMB60116	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.

National Code	National Title	Nominal Hours
PMBFIN201	Finish products and components	26
PMBFIN202	Fit attachments to products	26
PMBFIN203	Repair product imperfections	26
PMBFIN205	Hand decorate products	52
PMBHAN103	Shift materials safely by hand	26
PMBHAN208	Store products	26
PMBPREP201	Prepare moulds for composites production	20
PMBPREP205	Assemble materials and equipment for production	26
PMBPREP206	Prepare materials to formulae	26
PMBPREP301	Set up and prepare for production	13
PMBPREP303	Set up equipment for continuous operation	26
PMBPREP304	Set a die	26
PMBPREP305	Change extrusion die and setup	60
PMBPROD206	Operate ancillary equipment	40
PMBPROD207	Operate calender	70
PMBPROD209	Operate cable winding equipment	26
PMBPROD210	Operate injection moulding equipment	60
PMBPROD211	Operate blow moulding equipment	60
PMBPROD212	Operate thermoforming equipment	60
PMBPROD213	Operate extruders	60
PMBPROD216	Operate blown film equipment	60
PMBPROD217	Operate printing equipment	20
PMBPROD221	Operate rotational moulding equipment	60

PMBPROD229	Operate polystyrene shape moulding equipment	40
PMBPROD233	Operate film conversion equipment	60
PMBPROD235	Use materials and process knowledge to complete work operations	26
PMBPROD236	Operate hand held air/power equipment for production processes	13
PMBPROD237	Splice cables	52
PMBPROD238	Perform creel rack operations	30
PMBPROD239	Build reinforced conveyor belts	40
PMBPROD240	Cut materials	26
PMBPROD241	Lay up rubber lining or lag pulleys	30
PMBPROD242	Bond polymers to surfaces	40
PMBPROD245	Fabricate materials	52
PMBPROD246	Hand mix materials	13
PMBPROD247	Hand lay up composites	52
PMBPROD248	Prepare surfaces for coating	26
PMBPROD249	Apply liquid surface coatings	40
PMBPROD251	Apply gel coat or other polymer surface finish	20
PMBPROD252	Operate compounding equipment	26
PMBPROD253	Operate an internal mill blender	26
PMBPROD254	Operate an open mill blender	26
PMBPROD255	Operate mixing equipment	26
PMBPROD259	Operate granulating equipment	26
PMBPROD261	Operate continuous vulcanising equipment	20
PMBPROD262	Operate tyre curing equipment	20
PMBPROD263	Operate retread curing equipment	20
PMBPROD265	Operate portable vulcanising equipment	20
PMBPROD266	Prepare tyre casings for retreading	20
PMBPROD267	Operate steel cutting equipment	15
PMBPROD268	Operate bead coiling equipment	15

PMBPROD270	Operate injection blow moulding equipment	70
PMBPROD280	Operate resin-glass depositor equipment	30
PMBPROD281	Finish composite products	30
PMBPROD282	Assemble mould	15
PMBPROD283	Demould product	15
PMBPROD284	Operate open flame moulding equipment	40
PMBPROD285	Operate computer controlled equipment	40
PMBPROD287	Weld plastics materials	50
PMBPROD290	Operate filament winding equipment	30
PMBPROD291	Operate resin infusion moulding equipment	30
PMBPROD292	Operate pultrusion equipment	40
PMBPROD293	Operate vacuum bagging equipment	30
PMBPROD294	Operate resin transfer moulding equipment	30
PMBPROD295	Operate composite sheeting equipment	30
PMBPROD296	Operate centrifugal casting equipment	30
PMBPROD297	Operate equipment using moulding compounds	30
PMBPROD298	Operate equipment using pre-preg material	30
PMBPROD300	Produce products	40
PMBPROD301	Draw wire	52
PMBPROD302	Bunch and strand wire	26
PMBPROD303	Lay up and tape cables	26
PMBPROD304	Wind products onto drums	26
PMBPROD305	Colour optical fibre	13
PMBPROD306	Prepare and start equipment for production	20
PMBPROD307	Produce calendered products	52
PMBPROD308	Take a machine out of production	20
PMBPROD309	Produce electroplated products	52
PMBPROD310	Produce injection moulded products	52

PMBPROD311	Produce blow moulded products	52
PMBPROD312	Produce continuous thermoforming products	52
PMBPROD313	Produce extruded products	52
PMBPROD314	Produce compression moulded products	52
PMBPROD315	Produce polyurethane foam	52
PMBPROD316	Produce blown film	52
PMBPROD317	Print and decorate rigid products	52
PMBPROD319	Build up rollers	52
PMBPROD320	Produce foam injected mouldings	52
PMBPROD321	Produce rotational moulded products	52
PMBPROD323	Produce powder coated products	52
PMBPROD324	Inspect tyres for retreading	13
PMBPROD325	Lay on tyre retreads	26
PMBPROD326	Inspect tyres	20
PMBPROD328	Produce sheet feed vacuum forming products	52
PMBPROD329	Produce polystyrene shape moulded products	52
PMBPROD330	Make moulds for formed products	50
PMBPROD331	Produce printed and decorated film	52
PMBPROD332	Produce thermally bent products	13
PMBPROD333	Convert plastic film	60
PMBPROD334	Produce products using twin screw extruders	70
PMBPROD336	Inspect heavy off-the-road tyres	20
PMBPROD337	Prepare heavy off-the-road tyres for repair	60
PMBPROD338	Repair heavy off-the-road tyres	55
PMBPROD339	Produce reinforced conveyor belts	50
PMBPROD340	Cure heavy off-the-road tyre repairs	50
PMBPROD341	Finish heavy off-the-road tyre repairs	20
PMBPROD343	Shut down plant area	26

PMBPROD347	Produce composites using hand lamination	40
PMBPROD349	Produce liquid surface coated products	40
PMBPROD352	Produce compounded materials	40
PMBPROD353	Compound materials using an internal mill blender	30
PMBPROD354	Compound materials using an open mill blender	30
PMBPROD355	Make pattern/plug for composites moulds	60
PMBPROD356	Construct moulds for composite products	52
PMBPROD357	Construct jigs and fixtures	52
PMBPROD358	Develop patterns	52
PMBPROD360	Produce centrifugally cast polyurethane products	40
PMBPROD362	Produce gravity cast polyurethane products	40
PMBPROD367	Remove and replace conveyor belts	10
PMBPROD368	Repair conveyor belt carcass	30
PMBPROD369	Repair conveyor belt covers	30
PMBPROD370	Produce injection blow moulded products	80
PMBPROD372	Produce fibre optic preforms	40
PMBPROD373	Draw optical fibre	40
PMBPROD375	Vulcanise products using an autoclave	40
PMBPROD376	Splice steel cord conveyor belts	40
PMBPROD377	Splice fabric ply conveyor belts	40
PMBPROD378	Splice solid woven conveyor belts	40
PMBPROD380	Produce composites using chopper gun/depositor	52
PMBPROD384	Operate multi-axis router	60
PMBPROD385	Program computer controlled equipment	40
PMBPROD387	Produce welded plastics materials	40
PMBPROD390	Produce composites using filament winding	30
PMBPROD391	Produce composites using resin infusion	30
PMBPROD392	Produce composites using pultrusion	30

PMBPROD393	Produce composites using vacuum bagging	30
PMBPROD394	Produce composites using resin transfer moulding	30
PMBPROD395	Produce composite sheet products	30
PMBPROD396	Produce composites using centrifugal casting	30
PMBPROD397	Produce composites using moulding compounds	30
PMBPROD398	Produce composites using pre-pregs	30
PMBPROD430	Trial a new die/tool	60
PMBPROD431	Trial a new, advanced or complex mould	40
PMBTECH301	Use material and process knowledge to solve problems	40
PMBTECH302	Modify existing compounds	40
PMBTECH303	Make minor modifications to products	40
PMBTECH401	Predict polymer properties and characteristics	60
PMBTECH402	Set advanced or complex dies	50
PMBTECH403	Test fibre-composites materials and laminates	40
PMBTECH404	Mould chemical resistant and/or fire retardant fibre-composites	40
PMBTECH405	Repair damaged fibre-composites structures	50
PMBTECH406	Diagnose production equipment problems	50
PMBTECH501	Analyse equipment performance	50
PMBTECH502	Review and analyse production trials and specify retrials	50
PMBTECH503	Determine rheology and output of plastics materials from processing equipment	80
PMBTECH504	Determine heat transfer loads for processing equipment	50
PMBTECH505	Choose polymer materials for an application	50
PMBTECH506	Analyse the design of products and tools	80
PMBTECH507	Develop fibre-composite products using cored-laminate techniques	50
PMBTECH508	Develop a new compound	60
PMBTECH509	Modify an existing product	50
PMBTECH510	Analyse failure in polymeric materials	60
PMBTECH601	Develop a new product	200

PMBTECH602	Develop a new die or tool	200
PMBTECH603	Design structural/mechanical polymer components	100
PMBWASTE101	Collect waste for recycling or safe disposal	26
PMBWASTE302	Coordinate waste disposal	26
PMBWELD301	Butt weld polyethylene plastic pipelines	20
PMBWELD302	Electrofusion weld polyethylene pipelines	20
PMBWELD303	Install polyethylene (non-pressure) drainage pipelines	20
PMBWELD304	Design polyethylene (non-pressure) drainage pipelines	15
PMBWELD305	Install polyethylene plastic pressure pipelines	20
PMBWELD306	Design polyethylene plastic pressure pipelines	20
PMBWELD307	Install high temperature plastic pressure pipelines	25
PMBWELD308	Install PVC plastic pressure pipelines	20
PMBWELD309	Weld plastic using extrusion techniques	20
PMBWELD310	Design PVC plastic pressure pipelines	20
PMBWELD311	Design high temperature plastic pressure pipelines	20

Mapping Qualifications

The following table provides an overview of the qualifications from Version 1.00 which replace qualifications from the existing version of the PMB07 Plastics, Rubber and Cablemaking Training Package.

PMB07 Current Qualification				PMB Replacement Qualification		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
PMB20107	Certificate II in Polymer Processing	420	E	PMB20116	Certificate II in Polymer Processing	420
PMB30107	Certificate III in Polymer Processing	770	E	PMB30116	Certificate III in Polymer Processing	770
PMB40107	Certificate IV in Polymer Technology	1093	E	PMB40116	Certificate IV in Polymer Technology	1093
PMB50107	Diploma of Polymer Technology	692	E	PMB50116	Diploma of Polymer Technology	692
PMB60107	Advanced Diploma of Polymer Technology	1570	E	PMB60116	Advanced Diploma of Polymer Technology	1570

Mapping Units of Competency

The following table provides an overview of the units of competency from Version 1.00 which replace units of competency from the existing version of the PMB Plastics, Rubber and Cablemaking.

PMB07 Current Unit				PMB Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
PMBFIN201C	Finish products and components	26	E	PMBFIN201	Finish products and components	26
PMBFIN202C	Fit attachments to products	26	E	PMBFIN202	Fit attachments to products	26
PMBFIN203C	Repair product imperfections	26	E	PMBFIN203	Repair product imperfections	26
PMBFIN205C	Hand decorate products	52	E	PMBFIN205	Hand decorate products	52
PMBHAN103C	Shift materials safely by hand	26	E	PMBHAN103	Shift materials safely by hand	26
PMBHAN208C	Store products	26	E	PMBHAN208	Store products	26
PMBPREP201B	Prepare moulds for composites production	20	E	PMBPREP201	Prepare moulds for composites production	20
PMBPREP205C	Assemble materials and equipment for production	26	E	PMBPREP205	Assemble materials and equipment for production	26
PMBPREP206C	Prepare materials to formulae	26	E	PMBPREP206	Prepare materials to formulae	26
PMBPREP301C	Set up and prepare for production	13	E	PMBPREP301	Set up and prepare for production	13
PMBPREP303C	Set up equipment for continuous operation	26	E	PMBPREP303	Set up equipment for continuous operation	26
PMBPREP304C	Set a die	26	E	PMBPREP304	Set a die	26
PMBPREP305B	Change extrusion die and setup	60	E	PMBPREP305	Change extrusion die and setup	60
PMBPROD206B	Operate ancillary equipment	40	E	PMBPROD206	Operate ancillary equipment	40
PMBPROD207B	Operate calender	70	E	PMBPROD207	Operate calender	70
PMBPROD209C	Operate cable winding equipment	26	E	PMBPROD209	Operate cable winding equipment	26
PMBPROD210B	Operate injection moulding equipment	60	E	PMBPROD210	Operate injection moulding equipment	60
PMBPROD211B	Operate blow moulding equipment	60	E	PMBPROD211	Operate blow moulding equipment	60
PMBPROD212B	Operate thermoforming equipment	60	E	PMBPROD212	Operate thermoforming equipment	60
PMBPROD213B	Operate extruders	60	E	PMBPROD213	Operate extruders	60
PMBPROD216B	Operate blown film equipment	60	E	PMBPROD216	Operate blown film equipment	60

PMBPROD217B	Operate printing equipment	20	E	PMBPROD217	Operate printing equipment	20
PMBPROD221B	Operate rotational moulding equipment	60	E	PMBPROD221	Operate rotational moulding equipment	60
PMBPROD229B	Operate polystyrene shape moulding equipment	40	E	PMBPROD229	Operate polystyrene shape moulding equipment	40
PMBPROD233B	Operate film conversion equipment	60	E	PMBPROD233	Operate film conversion equipment	60
PMBPROD235C	Use materials and process knowledge to complete work operations	26	E	PMBPROD235	Use materials and process knowledge to complete work operations	26
PMBPROD236C	Operate hand held air/power equipment for production processes	13	E	PMBPROD236	Operate hand held air/power equipment for production processes	13
PMBPROD237C	Splice cables	52	E	PMBPROD237	Splice cables	52
PMBPROD238A	Perform creel rack operations	30	E	PMBPROD238	Perform creel rack operations	30
PMBPROD239A	Build reinforced conveyor belts	40	E	PMBPROD239	Build reinforced conveyor belts	40
PMBPROD240C	Cut materials	26	E	PMBPROD240	Cut materials	26
PMBPROD241C	Lay up rubber lining or lag pulleys	30	E	PMBPROD241	Lay up rubber lining or lag pulleys	30
PMBPROD242A	Bond polymers to surfaces	40	E	PMBPROD242	Bond polymers to surfaces	40
PMBPROD245C	Fabricate materials	52	E	PMBPROD245	Fabricate materials	52
PMBPROD246C	Hand mix materials	13	E	PMBPROD246	Hand mix materials	13
PMBPROD247C	Hand lay up composites	52	E	PMBPROD247	Hand lay up composites	52
PMBPROD248C	Prepare surfaces for coating	26	E	PMBPROD248	Prepare surfaces for coating	26
PMBPROD249B	Apply liquid surface coatings	40	E	PMBPROD249	Apply liquid surface coatings	40
PMBPROD251B	Apply gel coat or other polymer surface finish	20	E	PMBPROD251	Apply gel coat or other polymer surface finish	20
PMBPROD252C	Operate compounding equipment	26	E	PMBPROD252	Operate compounding equipment	26
PMBPROD253C	Operate an internal mill blender	26	E	PMBPROD253	Operate an internal mill blender	26
PMBPROD254C	Operate an open mill blender	26	E	PMBPROD254	Operate an open mill blender	26
PMBPROD255C	Operate mixing equipment	26	E	PMBPROD255	Operate mixing equipment	26
PMBPROD259C	Operate granulating equipment	26	E	PMBPROD259	Operate granulating equipment	26
PMBPROD261B	Operate continuous vulcanising equipment	20	E	PMBPROD261	Operate continuous vulcanising equipment	20
PMBPROD262B	Operate tyre curing equipment	20	E	PMBPROD262	Operate tyre curing equipment	20
PMBPROD263B	Operate retread curing equipment	20	E	PMBPROD263	Operate retread curing equipment	20
PMBPROD265C	Operate portable vulcanising equipment	20	E	PMBPROD265	Operate portable vulcanising equipment	20

PMBPROD266B	Prepare tyre casings for retreading	20	E	PMBPROD266	Prepare tyre casings for retreading	20
PMBPROD267B	Operate steel cutting equipment	15	E	PMBPROD267	Operate steel cutting equipment	15
PMBPROD268B	Operate bead coiling equipment	15	E	PMBPROD268	Operate bead coiling equipment	15
PMBPROD270B	Operate injection blow moulding equipment	70	E	PMBPROD270	Operate injection blow moulding equipment	70
PMBPROD280B	Operate resin-glass depositor equipment	30	E	PMBPROD280	Operate resin-glass depositor equipment	30
PMBPROD281B	Finish composite products	30	E	PMBPROD281	Finish composite products	30
PMBPROD282B	Assemble mould	15	E	PMBPROD282	Assemble mould	15
PMBPROD283B	Demould product	15	E	PMBPROD283	Demould product	15
PMBPROD284B	Operate open flame moulding equipment	40	E	PMBPROD284	Operate open flame moulding equipment	40
PMBPROD285A	Operate computer controlled equipment	40	E	PMBPROD285	Operate computer controlled equipment	40
PMBPROD287B	Weld plastics materials	50	E	PMBPROD287	Weld plastics materials	50
PMBPROD290B	Operate filament winding equipment	30	E	PMBPROD290	Operate filament winding equipment	30
PMBPROD291B	Operate resin infusion moulding equipment	30	E	PMBPROD291	Operate resin infusion moulding equipment	30
PMBPROD292B	Operate pultrusion equipment	40	E	PMBPROD292	Operate pultrusion equipment	40
PMBPROD293B	Operate vacuum bagging equipment	30	E	PMBPROD293	Operate vacuum bagging equipment	30
PMBPROD294B	Operate resin transfer moulding equipment	30	E	PMBPROD294	Operate resin transfer moulding equipment	30
PMBPROD295B	Operate composite sheeting equipment	30	E	PMBPROD295	Operate composite sheeting equipment	30
PMBPROD296B	Operate centrifugal casting equipment	30	E	PMBPROD296	Operate centrifugal casting equipment	30
PMBPROD297B	Operate equipment using moulding compounds	30	E	PMBPROD297	Operate equipment using moulding compounds	30
PMBPROD298B	Operate equipment using pre-preg material	30	E	PMBPROD298	Operate equipment using pre-preg material	30
PMBPROD300B	Produce products	40	E	PMBPROD300	Produce products	40
PMBPROD301C	Draw wire	52	E	PMBPROD301	Draw wire	52
PMBPROD302C	Bunch and strand wire	26	E	PMBPROD302	Bunch and strand wire	26
PMBPROD303C	Lay up and tape cables	26	E	PMBPROD303	Lay up and tape cables	26
PMBPROD304C	Wind products onto drums	26	E	PMBPROD304	Wind products onto drums	26
PMBPROD305C	Colour optical fibre	13	E	PMBPROD305	Colour optical fibre	13
PMBPROD306B	Prepare and start equipment for production	20	E	PMBPROD306	Prepare and start equipment for production	20
PMBPROD307C	Produce calendered products	52	E	PMBPROD307	Produce calendered products	52

PMBPROD308B	Take a machine out of production	20	E	PMBPROD308	Take a machine out of production	20
PMBPROD309C	Produce electroplated products	52	E	PMBPROD309	Produce electroplated products	52
PMBPROD310C	Produce injection moulded products	52	E	PMBPROD310	Produce injection moulded products	52
PMBPROD311C	Produce blow moulded products	52	E	PMBPROD311	Produce blow moulded products	52
PMBPROD312C	Produce continuous thermoforming products	52	E	PMBPROD312	Produce continuous thermoforming products	52
PMBPROD313C	Produce extruded products	52	E	PMBPROD313	Produce extruded products	52
PMBPROD314C	Produce compression moulded products	52	E	PMBPROD314	Produce compression moulded products	52
PMBPROD315C	Produce polyurethane foam	52	E	PMBPROD315	Produce polyurethane foam	52
PMBPROD316C	Produce blown film	52	E	PMBPROD316	Produce blown film	52
PMBPROD317C	Print and decorate rigid products	52	E	PMBPROD317	Print and decorate rigid products	52
PMBPROD319C	Build up rollers	52	E	PMBPROD319	Build up rollers	52
PMBPROD320C	Produce foam injected mouldings	52	E	PMBPROD320	Produce foam injected mouldings	52
PMBPROD321B	Produce rotational moulded products	52	E	PMBPROD321	Produce rotational moulded products	52
PMBPROD323C	Produce powder coated products	52	E	PMBPROD323	Produce powder coated products	52
PMBPROD324B	Inspect tyres for retreading	13	E	PMBPROD324	Inspect tyres for retreading	13
PMBPROD325B	Lay on tyre retreads	26	E	PMBPROD325	Lay on tyre retreads	26
PMBPROD326B	Inspect tyres	20	E	PMBPROD326	Inspect tyres	20
PMBPROD328C	Produce sheet feed vacuum forming products	52	E	PMBPROD328	Produce sheet feed vacuum forming products	52
PMBPROD329C	Produce polystyrene shape moulded products	52	E	PMBPROD329	Produce polystyrene shape moulded products	52
PMBPROD330A	Make moulds for formed products	50	E	PMBPROD330	Make moulds for formed products	50
PMBPROD331C	Produce printed and decorated film	52	E	PMBPROD331	Produce printed and decorated film	52
PMBPROD332C	Produce thermally bent products	13	E	PMBPROD332	Produce thermally bent products	13
PMBPROD333B	Convert plastic film	60	E	PMBPROD333	Convert plastic film	60
PMBPROD334A	Produce products using twin screw extruders	70	E	PMBPROD334	Produce products using twin screw extruders	70
PMBPROD336A	Inspect heavy off-the-road tyres	20	E	PMBPROD336	Inspect heavy off-the-road tyres	20
PMBPROD337A	Prepare heavy off-the-road tyres for repair	60	E	PMBPROD337	Prepare heavy off-the-road tyres for repair	60
PMBPROD338A	Repair heavy off-the-road tyres	55	E	PMBPROD338	Repair heavy off-the-road tyres	55
PMBPROD339A	Produce reinforced conveyor belts	50	E	PMBPROD339	Produce reinforced conveyor belts	50

PMBPROD340A	Cure heavy off-the-road tyre repairs	50	E	PMBPROD340	Cure heavy off-the-road tyre repairs	50
PMBPROD341A	Finish heavy off-the-road tyre repairs	20	E	PMBPROD341	Finish heavy off-the-road tyre repairs	20
PMBPROD343C	Shut down plant area	26	E	PMBPROD343	Shut down plant area	26
PMBPROD347B	Produce composites using hand lamination	40	E	PMBPROD347	Produce composites using hand lamination	40
PMBPROD349B	Produce liquid surface coated products	40	E	PMBPROD349	Produce liquid surface coated products	40
PMBPROD352A	Produce compounded materials	40	E	PMBPROD352	Produce compounded materials	40
PMBPROD353B	Compound materials using an internal mill blender	30	E	PMBPROD353	Compound materials using an internal mill blender	30
PMBPROD354B	Compound materials using an open mill blender	30	E	PMBPROD354	Compound materials using an open mill blender	30
PMBPROD355B	Make pattern/plug for composites moulds	60	E	PMBPROD355	Make pattern/plug for composites moulds	60
PMBPROD356C	Construct moulds for composite products	52	E	PMBPROD356	Construct moulds for composite products	52
PMBPROD357C	Construct jigs and fixtures	52	E	PMBPROD357	Construct jigs and fixtures	52
PMBPROD358C	Develop patterns	52	E	PMBPROD358	Develop patterns	52
PMBPROD360B	Produce centrifugally cast polyurethane products	40	E	PMBPROD360	Produce centrifugally cast polyurethane products	40
PMBPROD362B	Produce gravity cast polyurethane products	40	E	PMBPROD362	Produce gravity cast polyurethane products	40
PMBPROD367B	Remove and replace conveyor belts	10	E	PMBPROD367	Remove and replace conveyor belts	10
PMBPROD368B	Repair conveyor belt carcass	30	E	PMBPROD368	Repair conveyor belt carcass	30
PMBPROD369B	Repair conveyor belt covers	30	E	PMBPROD369	Repair conveyor belt covers	30
PMBPROD370B	Produce injection blow moulded products	80	E	PMBPROD370	Produce injection blow moulded products	80
PMBPROD372B	Produce fibre optic preforms	40	E	PMBPROD372	Produce fibre optic preforms	40
PMBPROD373B	Draw optical fibre	40	E	PMBPROD373	Draw optical fibre	40
PMBPROD375B	Vulcanise products using an autoclave	40	E	PMBPROD375	Vulcanise products using an autoclave	40
PMBPROD376A	Splice steel cord conveyor belts	40	E	PMBPROD376	Splice steel cord conveyor belts	40
PMBPROD377A	Splice fabric ply conveyor belts	40	E	PMBPROD377	Splice fabric ply conveyor belts	40
PMBPROD378A	Splice solid woven conveyor belts	40	E	PMBPROD378	Splice solid woven conveyor belts	40
PMBPROD380B	Produce composites using chopper gun/depositor	52	E	PMBPROD380	Produce composites using chopper gun/depositor	52
PMBPROD384A	Operate multi-axis router	60	E	PMBPROD384	Operate multi-axis router	60
PMBPROD385A	Program computer controlled equipment	40	E	PMBPROD385	Program computer controlled equipment	40
PMBPROD387B	Produce welded plastics materials	40	E	PMBPROD387	Produce welded plastics materials	40

PMBPROD390B	Produce composites using filament winding	30	E	PMBPROD390	Produce composites using filament winding	30
PMBPROD391B	Produce composites using resin infusion	30	E	PMBPROD391	Produce composites using resin infusion	30
PMBPROD392B	Produce composites using pultrusion	30	E	PMBPROD392	Produce composites using pultrusion	30
PMBPROD393B	Produce composites using vacuum bagging	30	E	PMBPROD393	Produce composites using vacuum bagging	30
PMBPROD394B	Produce composites using resin transfer moulding	30	E	PMBPROD394	Produce composites using resin transfer moulding	30
PMBPROD395B	Produce composite sheet products	30	E	PMBPROD395	Produce composite sheet products	30
PMBPROD396B	Produce composites using centrifugal casting	30	E	PMBPROD396	Produce composites using centrifugal casting	30
PMBPROD397B	Produce composites using moulding compounds	30	E	PMBPROD397	Produce composites using moulding compounds	30
PMBPROD398B	Produce composites using pre-pregs	30	E	PMBPROD398	Produce composites using pre-pregs	30
PMBPROD430B	Trial a new die/tool	60	E	PMBPROD430	Trial a new die/tool	60
PMBPROD431B	Trial a new, advanced or complex mould	40	E	PMBPROD431	Trial a new, advanced or complex mould	40
PMBTECH301B	Use material and process knowledge to solve problems	40	E	PMBTECH301	Use material and process knowledge to solve problems	40
PMBTECH302A	Modify existing compounds	40	E	PMBTECH302	Modify existing compounds	40
PMBTECH303A	Make minor modifications to products	40	E	PMBTECH303	Make minor modifications to products	40
PMBTECH401B	Predict polymer properties and characteristics	60	E	PMBTECH401	Predict polymer properties and characteristics	60
PMBTECH402B	Set advanced or complex dies	50	E	PMBTECH402	Set advanced or complex dies	50
PMBTECH403B	Test fibre-composites materials and laminates	40	E	PMBTECH403	Test fibre-composites materials and laminates	40
PMBTECH404B	Mould chemical resistant and/or fire retardant fibre-composites	40	E	PMBTECH404	Mould chemical resistant and/or fire retardant fibre-composites	40
PMBTECH405B	Repair damaged fibre-composites structures	50	E	PMBTECH405	Repair damaged fibre-composites structures	50
PMBTECH406A	Diagnose production equipment problems	50	E	PMBTECH406	Diagnose production equipment problems	50
PMBTECH501B	Analyse equipment performance	50	E	PMBTECH501	Analyse equipment performance	50
PMBTECH502B	Review and analyse production trials and specify retrials	50	E	PMBTECH502	Review and analyse production trials and specify retrials	50
PMBTECH503B	Determine rheology and output of plastics materials from processing equipment	80	E	PMBTECH503	Determine rheology and output of plastics materials from processing equipment	80
PMBTECH504B	Determine heat transfer loads for processing equipment	50	E	PMBTECH504	Determine heat transfer loads for processing equipment	50
PMBTECH505B	Choose polymer materials for an application	50	E	PMBTECH505	Choose polymer materials for an application	50

PMBTECH506B	Analyse the design of products and tools	80	E	PMBTECH506	Analyse the design of products and tools	80
PMBTECH507B	Develop fibre composite products using cored-laminate techniques	50	E	PMBTECH507	Develop fibre-composite products using cored-laminate techniques	50
PMBTECH508A	Develop a new compound	60	E	PMBTECH508	Develop a new compound	60
PMBTECH509A	Modify an existing product	50	E	PMBTECH509	Modify an existing product	50
PMBTECH510A	Analyse failure in polymeric materials	60	E	PMBTECH510	Analyse failure in polymeric materials	60
PMBTECH601B	Develop a new product	200	E	PMBTECH601	Develop a new product	200
PMBTECH602B	Develop a new die or tool	200	E	PMBTECH602	Develop a new die or tool	200
PMBTECH603B	Design structural/mechanical polymer components	100	E	PMBTECH603	Design structural/mechanical polymer components	100
PMBWASTE101C	Collect waste for recycling or safe disposal	26	E	PMBWASTE101	Collect waste for recycling or safe disposal	26
PMBWASTE302C	Coordinate waste disposal	26	E	PMBWASTE302	Coordinate waste disposal	26
PMBWELD301B	Butt weld polyethylene plastic pipelines	20	E	PMBWELD301	Butt weld polyethylene plastic pipelines	20
PMBWELD302B	Electrofusion weld polyethylene pipelines	20	E	PMBWELD302	Electrofusion weld polyethylene pipelines	20
PMBWELD303B	Install polyethylene (non-pressure) drainage pipelines	20	E	PMBWELD303	Install polyethylene (non-pressure) drainage pipelines	20
PMBWELD304B	Design polyethylene (non-pressure) drainage pipelines	15	E	PMBWELD304	Design polyethylene (non-pressure) drainage pipelines	15
PMBWELD305B	Install polyethylene plastic pressure pipelines	20	E	PMBWELD305	Install polyethylene plastic pressure pipelines	20
PMBWELD306B	Design polyethylene plastic pressure pipelines	20	E	PMBWELD306	Design polyethylene plastic pressure pipelines	20
PMBWELD307B	Install high temperature plastic pressure pipelines	25	E	PMBWELD307	Install high temperature plastic pressure pipelines	25
PMBWELD308B	Install PVC plastic pressure pipelines	20	E	PMBWELD308	Install PVC plastic pressure pipelines	20
PMBWELD309B	Weld plastic using extrusion techniques	20	E	PMBWELD309	Weld plastic using extrusion techniques	20
PMBWELD310B	Design PVC plastic pressure pipelines	20	E	PMBWELD310	Design PVC plastic pressure pipelines	20
PMBWELD311B	Design high temperature plastic pressure pipelines	20	E	PMBWELD311	Design high temperature plastic pressure pipelines	20

Apprenticeships

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

PMB07 Current Qualification					PMB Replacement Qualification		
National Code	National Title	Apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
PMB30107	Certificate III in Polymer Processing	AP01240: COMPOSITES LAMINATING	770	E	PMB30116	Certificate III in Polymer Processing	770

Traineeships

The following table provides a summary of the qualifications in the PMB: Plastics, Rubber and Cablemaking and the accredited traineeship courses they will replace.

PMB07 Current Qualification			PMB Replacement Qualification				
National Code	National Title	Traineeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
PMB20107	Certificate II in Polymer Processing	TR02600: PROCESS MANUFACTURING (RUBBER-INJECTION MOULDING) (LEVEL 2)	420	E	PMB20116	Certificate II in Polymer Processing	420
		TR02610: PROCESS MANUFACTURING (CABLEMAKING) (LEVEL 2)					
		TR04570: PLASTICS (LEVEL 2)					
		TR04730: PLASTICS - FILM (LEVEL 2)					
		TR04740: PLASTICS - BLOW MOULDING (LEVEL 2)					
		TR04750: PLASTICS - COMPOSITES (LEVEL 2)					
		TR04760: PLASTICS - EXTRUSION (LEVEL 2)					
		TR04770: PLASTICS - FABRICATION (LEVEL 2)					
		TR04780: PLASTICS - INJECTION MOULDING (LEVEL 2)					
		TR04790: PLASTICS - THERMOFORMING (LEVEL 2)					
		TR04800: PLASTICS - ROTATIONAL MOULDING (LEVEL 2)					
		TR04810: PLASTICS - POLYSTRENE (LEVEL 2)					
		TR04820: RUBBER (LEVEL 2)					
		TR04830: RUBBER - BELT SPLICING (LEVEL 2)					
TR04840: RUBBER - RUBBER LINING (LEVEL 2)							

PMB30107	Certificate III in Polymer Processing	TR08180: PLASTICS BLOW MOULDING (LEVEL 3)	770	E	PMB30116	Certificate III in Polymer Processing	770
		TR08190: PLASTICS - EXTRUSION (LEVEL 3)					
		TR08200: PLASTICS - FABRICATION (LEVEL 3)					
		TR08210: PLASTICS - FILM (LEVEL 3)					
		TR08220: PLASTICS - INJECTION MOULDING (LEVEL 3)					
		TR08230: PLASTICS - POLYSTYRENE (LEVEL 3)					
		TR08240: PLASTICS - ROTATIONAL MOULDING (LEVEL 3)					
		TR08250: PLASTICS - THERMOFORMING (LEVEL 3)					
		TR08260: PLASTICS (LEVEL 3)					
		TR08310: PROCESS MANUFACTURING (RUBBER-INJECTION MOULDING) (LEVEL 3)					
		TR08340: RUBBER - BELT SPLICING (LEVEL 3)					
		TR08350: RUBBER - RUBBER LINING (LEVEL 3)					
TR08360: RUBBER (LEVEL 3)							
PMB40107	Certificate IV in Polymer Technology	TR08270: POLYMER TECHNOLOGY (LEVEL 4)	1093	E	PMB40116	Certificate IV in Polymer Technology	1093