

PMB07 PLASTICS, RUBBER AND CABLEMAKING TRAINING PACKAGE

Version 2

WA NOMINAL HOURS GUIDE

Introduction

This Guide has been generated to enable the stakeholders in the 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 2 of the PMB07 Plastics, Rubber and Cablemaking Training Package was released by Training.Gov.Au (TGA) on the 6 July 2013

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

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 version 2 of the PMB07 Plastics, Rubber and Cablemaking Training Package.

National Code	National Title	Nominal Hours
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 Code	National 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

National Code	National Title	Nominal Hours
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
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

National Code	National Title	Nominal Hours
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
PMBPROD336A	Inspect heavy off the road tyres	20
PMBPROD337A	Prepare heavy off the road tyres for repair	60
PMBPROD338A	Repair heavy off the road tyres	55
PMBPROD339A	Produce reinforced conveyor belts	50
PMBPROD340A	Cure heavy off the road tyre repairs	50
PMBPROD341A	Finish heavy off the road tyre repairs	20

National Code	National Title	Nominal Hours
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
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

National Code	National Title	Nominal Hours
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
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

Mapping Qualifications

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

v1.1			v2		
National Code	National Title	Hours	National Code	National Title	Hours
	No changes occurred between version 1.1 and 2.0				

Mapping Units of Competency

The following table provides an overview of the units from Version 2 which replaces units from the existing version of the PMB Plastics, Rubber and Cablemaking Training Package.

v1.1			v2		
National Code	National Title	Hours	National Code	National Title	Hours
	No Previous Equivalent		PMBPROD336A	Inspect heavy off the road tyres	20
	No Previous Equivalent		PMBPROD337A	Prepare heavy off the road tyres for repair	60
	No Previous Equivalent		PMBPROD338A	Repair heavy off the road tyres	55
	No Previous Equivalent		PMBPROD340A	Cure heavy off the road tyre repairs	50
	No Previous Equivalent		PMBPROD341A	Finish heavy off the road tyre repairs	20