

PMB PLASTICS, RUBBER AND CABLEMAKING

TRAINING PACKAGE

Version 2.1

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 2.1 of the PMB Plastics, Rubber and Cablemaking was released by Training.Gov.Au (TGA) on the 25/03/2022.

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.

Contact Details

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Qualifications and Nominal Hours

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

National Code	National Title	Nominal Hours
PMB20121	Certificate II in Polymer Processing	420
PMB30121	Certificate III in Polymer Processing	770
PMB40121	Certificate IV in Polymer Technology	1093
PMB50121	Diploma of Polymer Technology	808

Skill Sets and Nominal Hours

The following table provides a summary of the skill sets and nominal hours in the training package.

National Code	National Title	Nominal Hours
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There are currently no skill sets available in this version of the training package.

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the training package.

National Code	National Title	Nominal Hours
PMBFIN201E	Finish components and products	26
PMBFIN202E	Fit attachments and assemble components for customised polymer products	26
PMBFIN203E	Rework product imperfections	26
PMBFIN205E	Hand decorate products	52
PMBHAN103E	Shift materials safely by hand	26
PMBPREP201E	Prepare moulds for composites production	20
PMBPREP205E	Assemble materials and equipment for production	26
PMBPREP206E	Prepare polymer materials to specified formulae	26
PMBPREP301E	Set up and prepare for batch production	13
PMBPREP303E	Set up equipment for continuous operation	26
PMBPREP304E	Set a die for injection moulding production	26
PMBPREP305E	Change extrusion die and calibrator	60
PMBPROD206E	Operate ancillary equipment	40
PMBPROD207E	Operate rubber calendaring equipment	70
PMBPROD209E	Operate cable winding equipment	26
PMBPROD210E	Operate injection moulding equipment	60
PMBPROD213E	Operate polymer extruders	60
PMBPROD216E	Operate blown film equipment	60
PMBPROD217E	Operate printing equipment	20
PMBPROD221E	Operate rotational moulding equipment	60
PMBPROD235E	Use materials and process knowledge to complete work operations	26
PMBPROD236E	Operate hand-held air or power equipment for production processes	13
PMBPROD238E	Perform creel rack operations for belting production	30

PMBPROD239E	Build fabric-reinforced conveyor belts	40
PMBPROD240E	Cut plastic materials	26
PMBPROD241E	Install rubber lining or pulley lagging using lay-up techniques	30
PMBPROD242E	Bond polymers to surfaces	40
PMBPROD243E	Cut rubber materials	25
PMBPROD245E	Fabricate products with rubber or plastics	52
PMBPROD246E	Hand mix materials	13
PMBPROD247E	Create composite laminates using hand lay-up techniques	52
PMBPROD248E	Prepare surfaces for coating	26
PMBPROD249E	Apply liquid surface coatings	40
PMBPROD251E	Apply gel coat or other polymer surface finish	20
PMBPROD252E	Operate polymer compounding equipment	26
PMBPROD253E	Operate an internal mill blender	26
PMBPROD254E	Operate an open mill blender	26
PMBPROD255E	Operate polymer mixing equipment	26
PMBPROD261E	Operate continuous vulcanising equipment	20
PMBPROD265E	Operate portable vulcanising equipment	20
PMBPROD280E	Operate a chopper gun to lay-up composites	30
PMBPROD281E	Finish composite products	30
PMBPROD282E	Reassemble production mould components	15
PMBPROD283E	Demould polymer products	15
PMBPROD287E	Weld thermoplastics materials	50
PMBPROD293E	Create composite laminates using vacuum-assisted closed-moulding processes	30
PMBPROD300E	Produce products	40
PMBPROD301E	Draw wire	52
PMBPROD302E	Bunch and strand wire	26
PMBPROD303E	Produce cable and tape lay-up cables	26
PMBPROD304E	Wind up wire or belts	26

PMBPROD306E	Prepare and start equipment for production	20
PMBPROD307E	Produce calendered rubber or vinyl products	52
PMBPROD308E	Take a machine out of production	20
PMBPROD310E	Produce injection moulded products	52
PMBPROD311E	Produce blow moulded products	52
PMBPROD313E	Produce extruded polymer products	52
PMBPROD316E	Produce blown film	52
PMBPROD321E	Produce rotational moulded products	52
PMBPROD325E	Lay on tyre retreads	26
PMBPROD326E	Inspect tyres	20
PMBPROD328E	Produce sheet-fed vacuum-formed products	52
PMBPROD330E	Make moulds for thermoformed products	50
PMBPROD336E	Inspect heavy off-the-road tyres	20
PMBPROD337E	Prepare heavy off-the-road tyres for repair	60
PMBPROD338E	Repair heavy off-the-road tyres	55
PMBPROD339E	Produce steel cord-reinforced conveyor belts	50
PMBPROD340E	Cure heavy off-the-road tyre repairs	50
PMBPROD341E	Finish heavy off-the-road tyre repairs	20
PMBPROD343E	Shut down plant area	26
PMBPROD347E	Mould composites products using hand lay-up techniques	40
PMBPROD352E	Produce compounded materials	40
PMBPROD355E	Make pattern or plug for composites moulds	60
PMBPROD356E	Construct moulds for composite products	52
PMBPROD357E	Construct jigs and fixtures	52
PMBPROD358E	Develop polymer product patterns	52
PMBPROD360E	Produce polyurethane products using centrifugal casting	40
PMBPROD362E	Produce polyurethane products using gravity casting	40
PMBPROD367E	Remove and replace conveyor belts	10

PMBPROD368E	Repair conveyor belt carcasses	30
PMBPROD369E	Repair conveyor belt covers	30
PMBPROD370E	Produce injection blow moulded products	80
PMBPROD375E	Vulcanise products using an autoclave	40
PMBPROD376E	Splice steel cord conveyor belts	40
PMBPROD377E	Splice fabric ply conveyor belts	40
PMBPROD378E	Splice solid woven conveyor belts	40
PMBPROD380E	Produce composites products using mechanised open mould wet lay-up	52
PMBPROD384E	Operate multi-axis router	60
PMBPROD385E	Program computer-controlled equipment	40
PMBPROD390E	Produce composites using filament winding	30
PMBPROD391E	Produce composites using resin infusion	30
PMBPROD392E	Produce thermoset composites using pultrusion	30
PMBPROD393E	Produce composites using vacuum bagging	30
PMBPROD394E	Produce composites using resin transfer moulding	30
PMBPROD398E	Produce composites using prepregs	30
PMBPROD430E	Trial a new injection moulding die	60
PMBPROD431E	Trial a new production mould assembly	40
PMBTECH301E	Optimise polymer processing operations	40
PMBTECH302E	Modify existing compounds	40
PMBTECH303E	Make minor modifications to products	40
PMBTECH401E	Predict polymer properties and characteristics	60
PMBTECH402E	Set advanced or complex injection moulding dies	50
PMBTECH403E	Test thermoset composite laminates and materials	40
PMBTECH404E	Mould composites with chemically-resistant or fire-retardant properties	40
PMBTECH405E	Repair damaged fibre-composites structures	50
PMBTECH406E	Diagnose production equipment problems	50
PMBTECH407E	Produce composite products using cored-laminate techniques	35

PMBTECH501E	Analyse equipment performance	50
PMBTECH502E	Analyse production trials	50
PMBTECH505E	Choose polymer materials for an application	50
PMBTECH506E	Analyse the design of products and tools for polymer injection moulding	80
PMBTECH507E	Develop fibre-composite products using cored-laminate techniques	50
PMBTECH508E	Develop a new compound	60
PMBTECH509E	Modify an existing product	50
PMBTECH601E	Develop a new product	200
PMBTECH602E	Develop a new die or tool	200
PMBTECH603E	Design structural or mechanical polymer components	100
PMBWELD301E	Join polyethylene plastic pipelines using butt welding	20
PMBWELD302E	Join polyethylene plastic pipelines using electrofusion welding	20
PMBWELD303E	Install polyethylene plastic pipelines for non-pressure drainage	20
PMBWELD304E	Design polyethylene plastic pipelines for non-pressure drainage	15
PMBWELD305E	Install polyethylene plastic pipelines for pressurised applications	20
PMBWELD306E	Design polyethylene plastic pipelines for pressurised applications	20
PMBWELD307E	Install plastic pipelines for high temperature applications	25
PMBWELD308E	Install PVC plastic pipelines for pressurised applications	20
PMBWELD309E	Weld plastic using extrusion techniques	20
PMBWELD310E	Design PVC plastic pipelines for pressure applications	20
PMBWELD311E	Design plastic pipelines for high temperature and pressure applications	20

Mapping Qualifications

The following table provides an overview of the qualifications from version 2.1 which replace qualifications from the existing version of the PMB Plastics, Rubber and Cablemaking Training Package.

Current Qualification			Replacement Qualification			
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2 and 2.1

Mapping Skill Sets

The following table provides an overview of the skill sets from version 2.1 which replace skill sets from the existing version of the PMB Plastics, Rubber and Cabling Training Package.

Current Skill Set				Replacement Skill Set		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2 and 2.1

Mapping Units of Competency

The following table provides an overview of the units of competency from version 2.1 which replace units of competency from the existing version of the PMB Plastics, Rubber and Cablemaking Training Package.

Current Unit			Replacement Unit			
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2 and 2.1

Apprenticeships

The following table provides a summary of the apprenticeships that have been affected by changes in this PMB Plastics, Rubber and Cablemaking Training Package update.

Please refer to the current *Register of Class A and B qualifications* found on the Department of Training and Workforce Development website for the official list of apprenticeships in Western Australia.

Current Qualification					Replacement Qualification		
National Code	National Title	Apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2 and 2.1

Traineeships

The following table provides a summary of the traineeships that have been affected by changes in this PMB Plastics, Rubber and Cablemaking Training Package update.

Please refer to the current *Register of Class A and B qualifications* found on the Department of Training and Workforce Development website for the official list of apprenticeships in Western Australia.

Current Qualification					Replacement Qualification		
National Code	National Title	Traineeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2 and 2.1

Pre-Apprenticeships

The following table provides a summary of the pre-apprenticeships that have been affected by changes in this PMB Plastics, Rubber and Cablemaking Training Package update.

Please refer to the current *list of pre-apprenticeship courses* found on the Department of Training and Workforce Development website for the official list of pre-apprenticeships in Western Australia.

Current Qualification					Replacement Qualification		
National Code	National Title	Pre-Apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2 and 2.1