

Victorian Purchasing Guide
for
PMB Plastics Rubber and Cablemaking
Training Package
Release 2.0

March 2021

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Victorian Purchasing Guide — Release History

Note: RTOs should refer to the National Register for the detail of changes made in each Release. (See [National Register](#) for more information)

Training Package Release	Date VPG Approved	Comments
PMB Plastics, Rubber and Cablemaking Training Package Release 2.0	29 March 2021	<p>Release 2.0 of the PMB Plastics, Rubber and Cablemaking Training Package reflects a substantial revision to reflect current industry best practice, improve relevance and reduce duplication across units of competency. 126 units have been revised, with the addition of two new units:</p> <ul style="list-style-type: none"> ▪ PMBPROD243E Cut rubber materials. ▪ PMBTECH407E Produce composite products using cored-laminate techniques. <p>The following obsolete qualification, along with 52 units, have been deleted: PMB60116 - Advanced Diploma of Polymer Technology</p> <p>For detailed mapping of qualifications and units between PMB Release 2 and PMB Release 1 please refer to the PMB Plastics, Rubber and Cablemaking Training Package Implementation Guide Companion Volume</p>
PMB Plastics, Rubber and Cablemaking Training Package Release 1.0	4 August 2016	<p>Release 1 of the PMB Plastics, Rubber and Cablemaking Training Package consolidates all qualifications from the PMB07 Training Package</p> <p>For detailed mapping of qualifications and units between PMB Release 1 and PMB07 please refer to the PMB Plastics, Rubber and Cablemaking Training Package Implementation Guide Companion Volume</p>

PMB Plastics, Rubber and Cablemaking Training Package Release 2 Victorian Purchasing Guide

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INTRODUCTION

What is a Victorian Purchasing Guide?

The Victorian Purchasing Guide provides information for use by Registered Training Organisations (RTOs) in the provision of Victorian government subsidised training.

Specifically the Victorian Purchasing Guide provides the following information related to the delivery of nationally endorsed Training Packages in Victoria:

- The maximum and minimum payable hours available for each qualification.
- Nominal hours for each unit of competency within the Training Package.

Registration

RTOs must be registered by either the Victorian Registration and Qualifications Authority (VRQA) or the Australian Skills Qualification Authority (ASQA) regulatory body to be eligible to issue qualifications and Statements of Attainment under the Australian Qualifications Framework (AQF).

The VRQA is the regulatory authority in Victoria responsible for the registration of Vocational Education and Training (VET) providers who offer courses to domestic students in Victoria only.

ASQA is the regulatory authority responsible for the registration of VET providers who offer training in Victoria, nationally and / or internationally.

Transition

The relationship between new units and any superseded or replaced units from the previous version of **PMB Plastics, Rubber and Cablemaking Training Package** is provided in the Training Package Companion Volume Implementation Guide. (See [Companion Volumes](#) for more information).

Information regarding transition arrangements can be obtained from the state or national VET Regulatory Authority (see Contacts and Links section).

RTOs must ensure that all training and assessment leading to issuance of qualifications or Statements of Attainment from the **PMB Plastics, Rubber and Cablemaking Training Package Release 2.0** is conducted against the Training Package units of competency and complies with the assessment requirements.



QUALIFICATIONS

Code	Title	Minimum Payable Hours	Maximum Payable Hours
PMB20121	Certificate II in Polymer Processing	475	500
PMB30121	Certificate III in Polymer Processing	817	860
PMB40121	Certificate IV in Polymer Technology	1178	1240
PMB50121	Diploma of Polymer Technology	998	1050



UNITS OF COMPETENCY AND NOMINAL HOURS

Unit Code	Unit Title	Nominal Hours
PMBFIN201E	Finish components and products	30
PMBFIN202E	Fit attachments and assemble components for customised polymer products	30
PMBFIN203E	Rework product imperfections	30
PMBFIN205E	Hand decorate products	40
PMBHAN103E	Shift materials safely by hand	20
PMBPREP201E	Prepare moulds for composites production	30
PMBPREP205E	Assemble materials and equipment for production	30
PMBPREP206E	Prepare polymer materials to specified formulae	30
PMBPREP301E	Set up and prepare for batch production	30
PMBPREP303E	Set up equipment for continuous operation	30
PMBPREP304E	Set a die for injection moulding production	50
PMBPREP305E	Change extrusion die and calibrator	50
PMBPROD206E	Operate ancillary equipment	40
PMBPROD207E	Operate rubber calendaring equipment	70
PMBPROD209E	Operate cable winding equipment	40
PMBPROD210E	Operate injection moulding equipment	70
PMBPROD213E	Operate polymer extruders	70
PMBPROD216E	Operate blown film equipment	70
PMBPROD217E	Operate printing equipment	40
PMBPROD221E	Operate rotational moulding equipment	60



Unit Code	Unit Title	Nominal Hours
PMBPROD235E	Use materials and process knowledge to complete work operations	50
PMBPROD236E	Operate hand-held air or power equipment for production processes	40
PMBPROD238E	Perform creel rack operations for belting production	30
PMBPROD239E	Build fabric-reinforced conveyor belts	40
PMBPROD240E	Cut plastic materials	30
PMBPROD241E	Install rubber lining or pulley lagging using lay-up techniques	30
PMBPROD242E	Bond polymers to surfaces	40
PMBPROD243E	Cut rubber materials	30
PMBPROD245E	Fabricate products with rubber or plastics	40
PMBPROD246E	Hand mix materials	20
PMBPROD247E	Create composite laminates using hand lay-up techniques	60
PMBPROD248E	Prepare surfaces for coating	20
PMBPROD249E	Apply liquid surface coatings	30
PMBPROD251E	Apply gel coat or other polymer surface finish	30
PMBPROD252E	Operate polymer compounding equipment	50
PMBPROD253E	Operate an internal mill blender	30
PMBPROD254E	Operate an open mill blender	30
PMBPROD255E	Operate polymer mixing equipment	30
PMBPROD261E	Operate continuous vulcanising equipment	30
PMBPROD265E	Operate portable vulcanising equipment	20
PMBPROD280E	Operate a chopper gun to lay-up composites	40
PMBPROD281E	Finish composite products	40



Unit Code	Unit Title	Nominal Hours
PMBPROD282E	Reassemble production mould components	20
PMBPROD283E	Demould polymer products	30
PMBPROD287E	Weld thermoplastics materials	50
PMBPROD293E	Create composite laminates using vacuum-assisted closed-moulding processes	40
PMBPROD300E	Produce products	40
PMBPROD301E	Draw wire	40
PMBPROD302E	Bunch and strand wire	40
PMBPROD303E	Produce cable and tape lay-up cables	40
PMBPROD304E	Wind up wire or belts	20
PMBPROD306E	Prepare and start equipment for production	30
PMBPROD307E	Produce calendered rubber or vinyl products	70
PMBPROD308E	Take a machine out of production	30
PMBPROD310E	Produce injection moulded products	60
PMBPROD311E	Produce blow moulded products	60
PMBPROD313E	Produce extruded polymer products	60
PMBPROD316E	Produce blown film	60
PMBPROD321E	Produce rotational moulded products	60
PMBPROD325E	Lay on tyre retreads	20
PMBPROD326E	Inspect tyres	20
PMBPROD328E	Produce sheet-fed vacuum-formed products	50
PMBPROD330E	Make moulds for thermoformed products	50
PMBPROD336E	Inspect heavy off-the-road tyres	20



Unit Code	Unit Title	Nominal Hours
PMBPROD337E	Prepare heavy off-the-road tyres for repair	40
PMBPROD338E	Repair heavy off-the-road tyres	60
PMBPROD339E	Produce steel cord-reinforced conveyor belts	50
PMBPROD340E	Cure heavy off-the-road tyre repairs	60
PMBPROD341E	Finish heavy off-the-road tyre repairs	20
PMBPROD343E	Shut down plant area	20
PMBPROD347E	Mould composites products using hand lay-up techniques	50
PMBPROD352E	Produce compounded materials	40
PMBPROD355E	Make pattern or plug for composites moulds	80
PMBPROD356E	Construct moulds for composite products	60
PMBPROD357E	Construct jigs and fixtures	40
PMBPROD358E	Develop polymer product patterns	60
PMBPROD360E	Produce polyurethane products using centrifugal casting	50
PMBPROD362E	Produce polyurethane products using gravity casting	50
PMBPROD367E	Remove and replace conveyor belts	20
PMBPROD368E	Repair conveyor belt carcasses	30
PMBPROD369E	Repair conveyor belt covers	30
PMBPROD370E	Produce injection blow moulded products	70
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



Unit Code	Unit Title	Nominal Hours
PMBPROD380E	Produce composites products using mechanised open mould wet lay-up	50
PMBPROD384E	Operate multi-axis router	60
PMBPROD385E	Program computer-controlled equipment	40
PMBPROD390E	Produce composites using filament winding	40
PMBPROD391E	Produce composites using resin infusion	30
PMBPROD392E	Produce thermoset composites using pultrusion	30
PMBPROD393E	Produce composites using vacuum bagging	40
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	60
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	40



Unit Code	Unit Title	Nominal Hours
PMBTECH501E	Analyse equipment performance	50
PMBTECH502E	Analyse production trials	60
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	70
PMBTECH508E	Develop a new compound	60
PMBTECH509E	Modify an existing product	50
PMBTECH601E	Develop a new product	100
PMBTECH602E	Develop a new die or tool	150
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	20
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	30
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





CONTACTS AND LINKS

Curriculum Maintenance Manager (CMM)		
General Manufacturing	The CMM Service is provided on behalf of Higher Education and Skills. CMM Service Executive Officers can assist with questions on payable and nominal hours.	Name: Paul Saunders Address: Chisholm Institute, PO Box 684, Dandenong, Victoria, 3175. Phone: 03 9238 8448 Email: paul.saunders@chisholm.edu.au
Service Skills Organisation (SSO)		
Innovation and Business Skills Australia (IBSA)	This SSO is responsible for developing this PMB Plastics Rubber and CABLEMAKING Training Package and can be contacted for further information.	Phone: 03 9815 7099 Email: manufacturing@ibsa.org.au See SSO website for further information.
National Register for VET in Australia		
Training.gov.au (TGA)	TGA is the Australian government's official National Register of information on Training Packages, qualifications, courses, units of competency and RTOs.	See the National Register for more information.
Australian Government		
Department of Education, Skills and Employment	The Commonwealth Department is responsible for national policies and programmes that help Australians access quality vocational education and training.	See the Commonwealth Department of Education, Skills and Employment website for more information.
State Government		
Department of Education and Training (DET)	DET is the State Training Authority responsible for supporting implementation of Vocational Education and Training (VET) in Victoria.	(03) 9637 2000 See the Victorian Department of Education and Training website for more information.
National VET Regulatory Authority		
Australian Skills Quality Authority (ASQA)	ASQA is the national regulator for Australia's VET sector.	Info line: 1300 701 801 See the ASQA website for more information.
Victorian State VET Regulatory Authority		
Victorian Registration and Qualifications Authority (VRQA)	The VRQA is a statutory authority responsible for the registration and regulation of Victorian RTOs and for the regulation of apprenticeships and traineeships in Victoria.	(03) 9637 2806 See the VRQA website for more information.



Industry Regulatory Bodies

WorkSafe Victoria	<p>The industry Regulatory body can provide advice on licensing, legislative or regulatory requirements which may impact on the delivery of training or the issuance of qualifications in this Training Package.</p> <p>WorkSafe needs to provide written verification before High Risk Work Units can be added to an RTO's scope of registration.</p>	<p>Address: 222 Exhibition Street, Melbourne, 3000. Phone: (03) 9641 1444 or 1800 136 089 (toll free)</p> <p>Email: Here.</p> <p>See Worksafe Victoria's website for further information.</p>
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GLOSSARY

Code	Nationally endorsed Training Package qualification code.
Title	Nationally endorsed Training Package qualification title.
Unit Code	Nationally endorsed Training Package unit code.
Unit Title	Nationally endorsed Training Package unit title.
Maximum Payable Hours	<p>The maximum number of hours the Victorian Government will subsidise under Skills First funding for the achievement of the minimum realistic vocational outcome of the qualification, as determined by the qualification packaging rules. The Maximum Payable Hours do not cover every possible combination of core and elective units available for a specific qualification.</p> <p>Minimum payable hours reflect a calculated minimum number of hours that could deliver a minimum realistic vocational outcome, based on efficiencies of contextualisation and integration.</p>
Scope of Registration	Scope of registration specifies the AQF qualifications and/or units of competency the training organisation is registered to issue and the industry training and/or assessment services it is registered to provide.
Nominal Hours	Nominal hours reflect the anticipated time taken to deliver and assess the outcomes of a unit of competency excluding unsupervised delivery or the time taken for repeated practical application of skills. Nominal hours are determined by the Victorian State Training Authority (DET) and are primarily developed for funding purposes in Victoria.