

Victorian Purchasing Guide

PMA Chemical, Hydrocarbons and Refining
Training Package

Release 2.3

October 2022



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Victorian Purchasing Guide - Release History

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

Training Package Release	Date VPG Approved	Comments
Release 2.3	5 October 2022	<p>Release 2.3 of the PMA Chemical, Hydrocarbons and Refining Training Package reflects the industry request to reinstate ten units of competency previously deleted under Release 2.1 below, as follows:</p> <ul style="list-style-type: none"> • PMASMELT260 Form carbon anodes • PMASMELT261 Bake carbon anodes • PMASMELT262 Clean and strip anode rods • PMASMELT263 Spray carbon anodes • PMASMELT264 Start up reduction cells • PMASMELT266 Deliver molten metal • PMASMELT267 Cast ingots • PMASMELT268 Operate vertical direct casting process • PMASMELT269 Operate cell tending equipment • PMASMELT270 Supply product from reduction cells <p>For detailed mapping of qualifications and units between PMA Release 2.3 and PMA Release 2.1, please refer to the PMA Chemicals, Hydrocarbons and Refining Training Package Implementation Guide Companion Volume</p> <p>Note: A VPG was not issued for minor release 2.2 updating the imported unit HLTAID003 to HLTAID011 and prerequisites that included the Provide First Aid unit, as directed by the Australian Industry and Skills Committee (1 December 2021).</p>
Release 2.1	28 May 2021	<p>Minor Release 2.1 of the PMA Chemical, Hydrocarbons and Refining Training Package reflects the deletion of training products with low or no enrolments as instructed by the Commonwealth Skills Minister and authorised by the AISC Communiqués issued on 2 December 2020 and confirmed on 23 February 2021.</p> <p>Thirty-seven (37) units of competency have been deleted.</p> <p>For detailed mapping of qualifications and units between PMA Release 2.1 and PMA Release 2.0, please refer to the PMA Chemicals, Hydrocarbons and Refining Training Package Implementation Guide Companion Volume</p>
Release 2.0	9 February 2021	<p>Release 2 of the PMA Chemical, Hydrocarbons and Refining Training Package reflects the update of PMA30120 Certificate III in Process Plant Operations which now includes seven new Gas/LNG specialisations.</p> <p>For detailed mapping of qualifications and units between PMA Release 2.0 and PMA Release 1.0, please refer to the PMA Chemicals, Hydrocarbons and Refining Training Package Implementation Guide Companion Volume</p>
Release 1.0	7 July 2016	<p>Release 1 of the PMA Chemical, Hydrocarbons and Refining Training Package reflects the transitioning of the PMA08 Chemicals,</p>

Training Package Release	Date VPG Approved	Comments
		<p>Hydrocarbons and Refining Training Package to the new Standards for Training Packages.</p> <ul style="list-style-type: none"> ▪ PMA70108 Graduate Certificate in Surface Coating Technology is not carried forward. <p>This Victorian Purchasing Guide also reflects the changes made from Maximum Nominal Hours to Maximum and Minimum Payable Hours.</p> <p>For detailed mapping of qualifications and units between PMA R 1.0 and PMA08 please refer to the PMA Chemicals, Hydrocarbons and Refining Training Package Implementation Guide Companion Volume</p>

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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 PMA Chemical, Hydrocarbons and Refining Training Package Release 2.3 is provided in the Training Package Companion Volume Implementation Guide. ([See VETnet.gov.au](http://VETnet.gov.au) 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 PMA Chemical, Hydrocarbons and Refining Training Package Release 2.3 is conducted against the Training Package units of competency and complies with the assessment requirements.

Qualifications

Code	Title	Minimum Payable Hours	Maximum Payable Hours
PMA20116	Certificate II in Process Plant Operations	608	640
PMA30120	Certificate III in Process Plant Operations	760	800
PMA40116	Certificate IV in Process Plant Technology	1102	1160
PMA50116	Diploma of Process Plant Technology	570	600
PMA60116	Advanced Diploma of Process Plant Technology	884	930



Units of Competency and Nominal Hours

Unit Code	Unit Title	Nominal Hours
PMAOMIR210	Control evacuation to muster point	20
PMAOMIR301	Undertake initial rescue	60
PMAOMIR302	Respond to a helideck incident	30
PMAOMIR306	Operate control panel during an emergency	50
PMAOMIR317	Facilitate search and rescue operations	40
PMAOMIR322	Manage incident response information	40
PMAOMIR323	Manage communication systems during an incident	30
PMAOMIR346	Assess and secure an incident site	30
PMAOMIR407	Audit incident preparedness and established response systems	80
PMAOMIR418	Coordinate incident response	40
PMAOMIR424	Develop and maintain community relationships	30
PMAOMIR430	Conduct and assess incident exercises	35
PMAOMIR444	Develop incident containment tactics	40
PMAOMIR512	Establish incident response preparedness and response systems	70
PMAOMIR650	Manage a crisis	80
PMAOPS101	Read dials and indicators	15
PMAOPS105	Select and prepare materials	15
PMAOPS201	Operate fluid flow equipment	60
PMAOPS202	Operate fluid mixing equipment	20
PMAOPS204	Select and use utilities and services	40

Unit Code	Unit Title	Nominal Hours
PMAOPS205	Operate heat exchangers	40
PMAOPS208	Operate chemical separation equipment	30
PMAOPS210	Operate solids handling equipment	20
PMAOPS213	Package product/material	20
PMAOPS216	Operate local control system	40
PMAOPS217	Operate wet milling equipment	40
PMAOPS220	Monitor chemical reactions in the process	30
PMAOPS221	Operate and monitor prime movers	40
PMAOPS222	Operate and monitor pumping systems and equipment	40
PMAOPS223	Operate and monitor valve systems	20
PMAOPS224	Provide fluids for utilities and support	20
PMAOPS226	Monitor and operate flare systems	30
PMAOPS230	Monitor, operate and maintain pipeline stations and equipment	40
PMAOPS231	Control gas odourisation	10
PMAOPS232	Operate filtration equipment	40
PMAOPS233	Monitor wells and gathering systems	30
PMAOPS234	Monitor and operate low pressure compressors	30
PMAOPS236	Monitor continuous process plant	40
PMAOPS240	Store fluids in bulk	30
PMAOPS241	Operate Joule-Thomson effect device	30
PMAOPS246	Operate separation equipment	15
PMAOPS247	Operate powered separation equipment	15

Unit Code	Unit Title	Nominal Hours
PMAOPS260	Conduct screening operations	30
PMAOPS261	Operate bulk solids loading equipment	30
PMAOPS262	Operate digestion equipment	30
PMAOPS264	Operate solvent extraction equipment	30
PMAOPS280	Interpret process plant schematics	20
PMAOPS306	Operate and troubleshoot production unit	40
PMAOPS309	Operate solids handling/storage facility	40
PMAOPS310	Operate and troubleshoot distillation system	40
PMAOPS311	Operate and troubleshoot reactors and reaction equipment	40
PMAOPS313	Operate and troubleshoot furnaces to induce reaction	50
PMAOPS314	Operate and troubleshoot compressor systems	30
PMAOPS315	Operate and troubleshoot process control systems	60
PMAOPS316	Organise storage and logistics of general materials	20
PMAOPS317	Undertake ship transfer operations	40
PMAOPS318	Conduct artificial lift	20
PMAOPS319	Adjust batch	40
PMAOPS322	Undertake well management	40
PMAOPS328	Operate and troubleshoot heating furnace	40
PMAOPS331	Operate and troubleshoot gas turbine system	50
PMAOPS332	Generate electrical power	30
PMAOPS334	Operate and troubleshoot gas absorption system	40
PMAOPS336	Operate and troubleshoot fixed-bed adsorption system	40

Unit Code	Unit Title	Nominal Hours
PMAOPS337	Operate and troubleshoot liquid extraction system	40
PMAOPS338	Communicate and monitor pipeline activities	40
PMAOPS339	Operate and troubleshoot wells and gathering systems	30
PMAOPS341	Operate and troubleshoot cryogenic processes	40
PMAOPS342	Conduct pipeline pigging	20
PMAOPS343	Transfer bulk fluids into/out of storage facility	40
PMAOPS344	Operate and troubleshoot flare systems	40
PMAOPS345	Operate and troubleshoot gas treatment process	60
PMAOPS346	Operate and troubleshoot liquefaction process	40
PMAOPS347	Create and conduct isolations in the workplace	60
PMAOPS348	Operate safety, protection and shutdown systems	50
PMAOPS349	Operate and troubleshoot hydraulic systems	40
PMAOPS350	Match and adjust colour	50
PMAOPS351	Operate and troubleshoot turret swivel systems	40
PMAOPS352	Operate and troubleshoot instrument and plant air systems	40
PMAOPS353	Operate and troubleshoot heating, ventilation and air conditioning systems	60
PMAOPS354	Operate and troubleshoot inert gas generation systems	40
PMAOPS355	Operate and troubleshoot fuel systems	40
PMAOPS356	Operate and troubleshoot water treatment systems	60
PMAOPS357	Operate and troubleshoot produced water and water injection systems	40
PMAOPS358	Process design fundamentals	40

Unit Code	Unit Title	Nominal Hours
PMAOPS359	Operate and troubleshoot process measurement and control systems	40
PMAOPS363	Operate and troubleshoot export systems	30
PMAOPS367	Operate and troubleshoot cooling water systems	40
PMAOPS368	Operate and troubleshoot heating medium/hot oil systems	40
PMAOPS369	Operate and troubleshoot drain and vent systems	30
PMAOPS370	Operate and troubleshoot condensate stabilisation systems	40
PMAOPS390	Operate a biochemical process	40
PMAOPS402	Respond to abnormal process situations	50
PMAOPS405	Operate complex control systems	80
PMAOPS410	Operate remote production facilities	40
PMAOPS411	Manage plant shutdown and restart	40
PMAOPS433	Manage wells and gathering systems	40
PMAOPS434	Commission wells and gathering systems	40
PMAOPS450	Solve colour problems	50
PMAOPS460	Monitor and operate tailings management facilities	50
PMAOPS500	Optimise production systems	100
PMAOPS501	Provide operational expertise to a project team	80
PMAOPS505	Control the process during abnormal situations	80
PMAOPS511	Determine energy transfer loads	40
PMAOPS512	Determine mass transfer loads	40
PMAOPS520	Manage utilities	50
PMAOPS521	Plan plant shutdown	50

Unit Code	Unit Title	Nominal Hours
PMAOPS522	Coordinate plant shutdown	50
PMAOPS600	Modify plant	60
PMAOPS601	Debottleneck plant	60
PMASMELT260	Form carbon anodes	40
PMASMELT261	Bake carbon anodes	30
PMASMELT262	Clean and strip anode rods	30
PMASMELT263	Spray carbon anodes	40
PMASMELT264	Start up reduction cells	60
PMASMELT265	Operate reduction cells	60
PMASMELT266	Deliver molten metal	30
PMASMELT267	Cast ingots	40
PMASMELT268	Operate vertical direct casting process	60
PMASMELT269	Operate cell tending equipment	30
PMASMELT270	Supply product from reduction cells	30
PMASUP236	Operate vehicles in the field	20
PMASUP237	Undertake crane, dogging and load transfer operations	40
PMASUP241	Maintain pipeline easements	20
PMASUP242	Monitor pipeline civil works	20
PMASUP243	Monitor and maintain pipeline coatings	20
PMASUP244	Prepare and isolate plant	50
PMASUP245	Break and make flanged joints using hand tools	30
PMASUP246	Disconnect and reconnect non-flared tube fitting joints	30

Unit Code	Unit Title	Nominal Hours
PMASUP305	Operate offshore cranes	80
PMASUP311	Operate communications hub	40
PMASUP341	Monitor and maintain instrument and control systems	40
PMASUP342	Monitor and maintain electrical systems	40
PMASUP345	Monitor vibration	60
PMASUP348	Monitor and maintain cathodic protection systems	20
PMASUP349	Monitor and control repairs and modifications on operational pipe	40
PMASUP350	Control corrosion	40
PMASUP410	Develop plant documentation	30
PMASUP420	Minimise environmental impact of process	40
PMASUP440	Commission/recommission plant	40
PMASUP441	Decommission plant	20
PMASUP444	Plan plant preparation and isolation	50
PMASUP445	Participate in HAZOP studies	40
PMASUP520	Review procedures to minimise environmental impact of process	40
PMASUP540	Analyse equipment performance	50
PMAWHS211	Prepare equipment for emergency response	20
PMAWHS213	Undertake fire control and emergency rescue	15
PMAWHS214	Undertake helicopter safety and escape	30
PMAWHS215	Apply offshore facility abandonment and sea survival procedures and practices	20
PMAWHS310	Investigate incidents	30

Unit Code	Unit Title	Nominal Hours
PMAWHS311	Lead emergency teams	20
PMAWHS312	Command the operation of survival craft	40
PMAWHS320	Provide advanced first aid response	20
PMAWHS502	Contribute to safety case	40
PMAWHS511	Manage emergency incidents	40

Contacts and Links

Curriculum Maintenance Manager (CMM) Service

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.

Paul Saunders:

Chisholm Institute

Address: PO Box 684, Dandenong, Vic. 3175

Phone: 03 9238 8448

Email: paul.saunders@chisholm.edu.au

Service Skills Organisation (SSO) - Innovation & Business Skills Australia (IBSA)

Innovation & Business Skills Australia (IBSA) is responsible for developing the MST Textiles, Clothing and Footwear Training Package and can be contacted for further information.

Address: Level 5, 534 Church Street,

Cremorne Vic. 3121.

Phone: 03 9815 7099

Email: manufacturing@ibsa.org.au

Website: IBSA.org.au

National Register of 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 training.gov.au 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 dese.gov.au 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. See education.vic.gov.au for more information. (03) 9637 2000

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 asqa.gov.au for more information.

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 vrqa.vic.gov.au

Industry Regulatory Bodies

WorkSafe Victoria

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. WorkSafe needs to provide written verification before high risk work units can be added to an RTO's scope of registration. info@worksafe.vic.gov.au See worksafe.vic.gov.au for further information.

222 Exhibition Street,
Melbourne 3000
(03) 9641 1444 or
1800 136 089 (toll free)

info@worksafe.vic.gov.au

See worksafe.vic.gov.au for further information.

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.