# Victorian Purchasing Guide

for

# PMA Chemical, Hydrocarbons and Refining Training Package

Release 2.1

May 2021





Education and Training

© State of Victoria (Department of Education and Training) 2021.

Copyright of this material is reserved to the Crown in the right of the State of Victoria. This work is licensed under a Creative Commons Attribution-NoDerivs 3.0 Australia licence (See <u>Creative Commons</u> for more information). You are free to use, copy and distribute to anyone in its original form as long as you attribute Higher Education and Skills, Department of Education and Training (DET) as the author, and you license any derivative work you make available under the same licence.

#### Disclaimer

In compiling the information contained in and accessed through this resource, the Department of Education and Training has used its best endeavours to ensure that the information is correct and current at the time of publication but takes no responsibility for any error, omission or defect therein.

To the extent permitted by law, DET, its employees, agents and consultants exclude all liability for any loss or damage (including indirect, special or consequential loss or damage) arising from the use of, or reliance on the information contained herein, whether caused or not by any negligent act or omission. If any law prohibits the exclusion of such liability, DET limits its liability to the extent permitted by law, for the resupply of the information.

#### Third party sites

This resource may contain links to third party websites and resources. DET is not responsible for the condition or content of these sites or resources as they are not under its control.

Third party material linked from this resource is subject to the copyright conditions of the third party. Users will need to consult the copyright notice of the third party sites for conditions of usage.

# Victorian Purchasing Guide — Release History

Note: RTOs should refer to the National Register for the detail of changes made in each Release.

Date VPG Approved	Comments
28 May 2021	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 Communiques issued on 2 December 2020 and confirmed on 23 February 2021.
	Thirty-seven (37) units of competency have been deleted.
	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
9 February 2021	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.
	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
7 July 2016	Release 1 of the PMA Chemical, Hydrocarbons and Refining Training Package reflects the transitioning of the PMA08 Chemicals, Hydrocarbons and Refining Training Package to the new Standards for Training Packages.
	<ul> <li>PMA70108 Graduate Certificate in Surface Coating Technology is not carried forward.</li> </ul>
	This Victorian Purchasing Guide also reflects the changes made from Maximum Nominal Hours to Maximum and Minimum Payable Hours.
	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
	Approved 28 May 2021 9 February 2021 7 July

# PMA Chemical, Hydrocarbons and Refining Training Package Release 2.1 Victorian Purchasing Guide

# CONTENTS

INTRODUCTION	2
What is a Victorian Purchasing Guide?	2
Registration	2
Transition	2
QUALIFICATIONS	3
UNITS OF COMPETENCY AND NOMINAL HOURS	4
CONTACTS AND LINKS	12
GLOSSARY	14



## 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 2.1** is provided in the Training Package Companion Volume Implementation Guide. (See <u>Companion Volumes</u> 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 2.1** 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

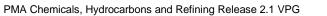


## UNITS OF COMPETENCY AND NOMINAL HOURS

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

Page 4 of 14

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



Unit Code	Unit Title	Nominal Hours
PMAOPS247	Operate powered separation equipment	15
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

Unit Code	Unit Title	Nominal Hours
PMAOPS334	Operate and troubleshoot gas absorption system	40
PMAOPS336	Operate and troubleshoot fixed-bed adsorption system	40
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



Unit Code	Unit Title	Nominal Hours
PMAOPS357	Operate and troubleshoot produced water and water injection systems	40
PMAOPS358	Process design fundamentals	40
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

Unit Code	Unit Title	Nominal Hours
PMAOPS511	Determine energy transfer loads	40
PMAOPS512	Determine mass transfer loads	40
PMAOPS520	Manage utilities	50
PMAOPS521	Plan plant shutdown	50
PMAOPS522	Coordinate plant shutdown	50
PMAOPS600	Modify plant	60
PMAOPS601	Debottleneck plant	60
PMASMELT265	Operate reduction cells	60
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
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



Unit Code	Unit Title	Nominal Hours
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
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

Page 10 of 14

Unit Code		Nominal Hours
PMAWHS511	Manage emergency incidents	40



# **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 Organi	isation (SSO)	1	
Innovation &	This SSO is responsible for developing	Phone: 03 9815 7099	
Business Skills Australia (IBSA)	this PMA Chemical, Hydrocarbons and Refining Training Package and	Email: manufacturing@ibsa.org.au	
	can be contacted for further information.	See <u>IBSA.org.au</u> 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 <u>National Register</u> for more information.	
Australian Governme	ent		
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 <u>DESE.gov.au</u> for more information.	
State Government			
Department of	DET is the State Training Authority	(03) 9637 2000	
Education and Training (DET)	responsible for supporting implementation of Vocational Education and Training (VET) in Victoria.	See <u>Education.vic.gov.au</u> for more information.	
National VET Regula	tory Authority		
Australian Skills	ASQA is the national regulator for	Info line: 1300 701 801	
Quality Authority (ASQA)	Australia's VET sector.	See <u>ASQA.gov.au</u> 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 <u>VRQA.vic.gov.au</u> for more information.	

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.	Address: 222 Exhibition Street, Melbourne, 3000. Phone: (03) 9641 1444 or 1800 136 089 (toll free) Email: <u>info@worksafe.vic.gov.au.</u> See <u>Worksafe.vic.gov.au</u> for further information.



## GLOSSARY

Code	Nationally endorsed Training Package qualification code.	
Title	Nationally endorsed Training Package qualification title.	
Jnit Code         Nationally endorsed Training Package unit code.		
Unit Title	Nationally endorsed Training Package unit title.	
Maximum Payable Hours	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. 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.	
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.	

