

Victorian Purchasing Guide
for
MSM Manufacturing
Training Package
Release 5.0

September 2019

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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.

Training Package Release	Date VPG Approved	Comments
MSM Manufacturing Training Package Release No 5.0	5 Sept 2019	<p>Release 5.0 of the MSM Manufacturing Training Package includes four new units of competency to support the bioproducts industry; specifically, the production of biofuels and bioenergy using new and existing technologies:</p> <ul style="list-style-type: none"> ▪ MSMBIO301 Process biomass using pyrolyser ▪ MSMBIO302 Ferment biomaterial to produce bioproducts ▪ MSMBIO303 Distil bioproducts ▪ MSMBIO304 Separate and recover bioproducts <p>These new units have been included as electives in MSM30116 Certificate III in Process Manufacturing.</p> <p>Please refer to the MSM Manufacturing Training Package Implementation Guide Release 5.0, for mapping information</p>
MSM Manufacturing Training Package Release No 4.0	15 April 2019	<p>The previous Victorian Purchasing Guide incorporated changes made in Releases 3.0 & 4.0 of the MSM Manufacturing Training Package as below:</p> <p>Release 4.0 of the MSM Manufacturing Training Package includes the following changes:</p> <ul style="list-style-type: none"> ▪ One new qualification - MSM30418: Certificate III in Fenestration. Imported unit updates including the inclusion of the following MSF Furniture Training Package units for this new qualification: <ul style="list-style-type: none"> - MSFFM3021 - Set up, operate and maintain computer numerically controlled (CNC) sizing machines - MSFFM3022 - Set up, operate and maintain computer numerically controlled (CNC) machining and processing centres - MSFGG2013 - Move single glass sheets by mechanical means - MSFGG2016 - Assemble glazing products - MSFGG3028 - Select, cut and process materials for glazing products - MSFGG3029 - Assess glass and glazing requirements - MSFGG3039 - Manually move glass <p>Please refer to the MSM Manufacturing Training Package Implementation Guide Release 4.0, Appendix B, for mapping information</p>
MSM Manufacturing Training Package Release No 3.0	15 April 2019	<p>Release 3.0 of the MSM Manufacturing Training Package includes the following changes:</p> <p>The PMC Manufactured Mineral Products Training Package has been cancelled. Aspects of the PMC Training Package have been transferred into MSM Release 3.0, as follows:</p> <ul style="list-style-type: none"> ▪ One new qualification - MSM30318 Certificate III in Manufactured Mineral Products (MMP). ▪ 36 new MMP units transferred and updated from the cancelled PMC Manufactured Mineral Products Training Package. ▪ Minor upgrades and imported unit updates.

Training Package Release	Date VPG Approved	Comments
		<p>Note: Previous releases of the MSM Manufacturing Training Package have not totally replaced or superseded MSA07. Four Manufacturing Technology qualifications and 35 MSATC units of competency are to be progressively reviewed for inclusion in MEM Manufacturing and Engineering Training Package.</p> <p>Please refer to the MSM Manufacturing Training Package Implementation Guide Release 3.0, Appendix B, for mapping information.</p>
<p>MSM Manufacturing Training Package Release No 2.0</p>	<p>7 July 2016</p>	<p>Release 2.0 of the MSM Manufacturing Training Package consolidates the remaining qualifications from the MSA07 Training Package. It includes the following components:</p> <ul style="list-style-type: none"> - Eight Process Manufacturing, Manufacturing Technology and Surface Preparation qualifications, - Note that Certificates III, IV, Diploma and Advanced Diploma of Manufacturing Technology have not carried forward and will be included in the MEM Training Package. <p>Please refer to the MSM Release 2 Implementation Guide for further details:</p>
<p>MSM Manufacturing Training Package Release No 1.0</p>	<p>22 March 2016</p>	<p>Release 1.0 of the MSM Manufacturing Training Package includes the following components:</p> <ul style="list-style-type: none"> - recreational vehicle qualifications and units of competency - water jetting and vacuum draining units of competency - high risk licensing units for boiler operations <p>For Process Manufacturing, Manufacturing Technology and Surface Preparation qualifications, refer to MSA07 Victorian Purchasing Guide:</p> <p>Please also refer to MSM Release 1 Implementation Guide for further information.</p>

MSM Manufacturing Training Package Release 5.0 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 **MSM Manufacturing Training Package Release 5.0** is provided in the Training Package Companion Volume Implementation Guide, available [here](#).

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 **MSM Manufacturing Training Package Release 5.0** is conducted against the Training Package units of competency and complies with the assessment requirements.

QUALIFICATIONS

Code	Title	Minimum Payable Hours	Maximum Payable Hours
MSM10116	Certificate I in Process Manufacturing	171	180
MSM10216	Certificate I in Manufacturing (Pathways)	270	284
MSM20116	Certificate II in Process Manufacturing	428	450
MSM20216	Certificate II in Manufacturing Technology	342	360
MSM21015	Certificate II in Recreational Vehicle Service and Repair	255	269
MSM21115	Certificate II in Recreational Vehicle Manufacturing	361	380
MSM30116	Certificate III in Process Manufacturing	760	800
MSM30216	Certificate III in Surface Preparation and Coating Application	931	980
MSM30318	Certificate III in Manufactured Mineral Products.	817	860
MSM30418	Certificate III in Fenestration	513	540
MSM31015	Certificate III in Recreational Vehicle Service and Repair	506	533
MSM31115	Certificate III in Recreational Vehicle Manufacturing	633	666
MSM31215	Certificate III in Recreational Vehicle and Accessories Retailing	508	535
MSM40116	Certificate IV in Process Manufacturing	1045	1100
MSM41015	Certificate IV in Recreational Vehicles	947	997
MSM41115	Certificate IV in Recreational Vehicle and Accessories Retailing	922	970
MSM50316	Diploma of Production Management	751	790
MSM51015	Diploma of Recreational Vehicles	485	510

UNITS OF COMPETENCY AND NOMINAL HOURS

Unit Code	Unit Title	Nominal Hours
MSMBIO301	Process biomass using pyrolyser	50
MSMBIO302	Ferment biomaterial to produce bioproducts	40
MSMBIO303	Distil bioproducts	40
MSMBIO304	Separate and recover bioproducts	40
MSMBLIC001	Licence to operate a standard boiler	40
MSMBLIC002	Licence to operate an advanced boiler	60
MSMENV172	Identify and minimise environmental hazards	20
MSMENV272	Participate in environmentally sustainable work practices	30
MSMENV472	Implement and monitor environmentally sustainable work practices	40
MSMENV672	Develop workplace policy and procedures for environmental sustainability	50
MSMOPS100	Use equipment	30
MSMOPS101	Make measurements	30
MSMOPS102	Perform tasks to support production	30
MSMOPS200	Operate equipment	40
MSMOPS201	Cut polymer materials	20
MSMOPS202	Fabricate polymer products	40
MSMOPS212	Use organisation computers or data systems	30
MSMOPS244	Lay out and cut materials	30
MSMOPS301	Treat corrosion	20
MSMOPS363	Organise on-site work	30
MSMOPS400	Optimise process/plant area	60

Unit Code	Unit Title	Nominal Hours
MSMOPS401	Trial new process or product	60
MSMOPS601	Design equipment and system modifications	80
MSMPCI101	Adapt to work in industry	30
MSMPCI102	Apply effective work practices	40
MSMPCI103	Demonstrate care and apply safe practices at work	30
MSMPCII295	Operate manufacturing equipment	40
MSMPCII296	Make a small furniture item from timber	0
MSMPCII297	Make an object from cloth using an existing pattern	0
MSMPCII298	Make an object from metal	0
MSMPCII299	Make an object from plastic	0
MSMPER200	Work in accordance with an issued permit	20
MSMPER201	Monitor and control work permits	20
MSMPER202	Observe permit work	20
MSMPER205	Enter confined space	30
MSMPER300	Issue work permits	20
MSMPER400	Coordinate permit process	30
MSMPMC200	Organise self	20
MSMPMC300	Produce structural precast concrete	60
MSMPMC301	Store materials for production	20
MSMPMC302	Operate equipment to blend/mix materials	40
MSMPMC303	Operate grinding equipment	40
MSMPMC304	Prepare for production	30
MSMPMC305	Heat accelerate the curing of precast concrete	60

Unit Code	Unit Title	Nominal Hours
MSMPMC306	Operate crushing equipment	40
MSMPMC307	Operate a calcining kiln	30
MSMPMC308	Operate slip casting equipment	40
MSMPMC309	Finish products after firing	20
MSMPMC310	Hand mould products	30
MSMPMC311	Operate a firing kiln	30
MSMPMC312	Operate glass finishing equipment	40
MSMPMC313	Schedule, cut and bend reinforcement	40
MSMPMC314	Finish green concrete products	40
MSMPMC315	Cast moulded concrete products	40
MSMPMC316	Finish cured concrete products	40
MSMPMC317	Conduct benching operations	40
MSMPMC318	Assemble, fabricate and place reinforcement	30
MSMPMC319	Finish casting operation	20
MSMPMC320	Demould concrete products	20
MSMPMC321	Batch mix concrete	40
MSMPMC322	Deliver concrete to site	30
MSMPMC323	Prepare asphalt	40
MSMPMC324	Move materials	40
MSMPMC325	Operate bulk materials handling equipment	30
MSMPMC326	Deliver customer service	20
MSMPMC327	Allocate and complete team tasks	20
MSMPMC328	Prepare for and apply shotcrete for installation	40

Unit Code	Unit Title	Nominal Hours
MSMPMC329	Prepare moulds and dies	40
MSMPMC330	Produce architectural precast concrete	50
MSMPMC400	Carry out stock control	20
MSMPMC401	Set up and tune a process	50
MSMPMC402	Process raw meal into product	40
MSMPMC403	Set up and optimise glass forming process	80
MSMRV310	Fit recreational vehicle floor	40
MSMRV311	Fit furniture in a recreational vehicle	25
MSMRV312	Fit water systems in a recreational vehicle	16
MSMRV313	Fit 12 V cable systems in a recreational vehicle	20
MSMRV314	Construct and fit roof to a recreational vehicle	20
MSMRV315	Construct and fit slide out in a recreational vehicle	30
MSMRV316	Fit appliances in a recreational vehicle	25
MSMRV317	Install solar equipment on a recreational vehicle	20
MSMRV318	Fit cladding to a recreational vehicle	20
MSMRV319	Fit front and rear moulds to a recreational vehicle	10
MSMRV320	Fit windows and doors to a recreational vehicle	30
MSMRV321	Fit required external items to a recreational vehicle	20
MSMRV322	Fit required external electrical components to a recreational vehicle	20
MSMRV323	Fit required internal items to a recreational vehicle	15
MSMRV324	Conduct final quality inspection for a recreational vehicle	20
MSMRV325	Fabricate a chassis and suspension for a recreational vehicle	45

Unit Code	Unit Title	Nominal Hours
MSMRV350	Remove and replace a recreational vehicle roof	20
MSMRV351	Remove and replace a recreational vehicle floor	40
MSMRV352	Remove and replace a recreational vehicle sidewall cladding	20
MSMRV353	Remove and replace a recreational vehicle shower cubicle	24
MSMRV354	Remove and replace a recreational vehicle shower walls	24
MSMRV355	Remove and replace a camper/pop-top roof	20
MSMRV356	Remove and replace gas struts and roof lifting equipment on a recreational vehicle	10
MSMRV357	Remove and replace external components of a recreational vehicle	20
MSMRV358	Modify the body of a recreational vehicle	40
MSMRV359	Install additional appliances in a recreational vehicle	20
MSMRV360	Service camper wind up systems	10
MSMRV361	Repair dry rot in a recreational vehicle	30
MSMRV362	Install and repair battery systems in a recreational vehicle	15
MSMRV363	Complete pre-delivery check of a recreational vehicle	15
MSMRV364	Hand over a recreational vehicle to a customer	15
MSMRV365	Remove and refit body moulding	10
MSMRV366	Fit transfers and decals to a recreational vehicle	10
MSMRVG201	Tow a recreational vehicle safely	10
MSMRVS202	Repair/service LP gas systems in a recreational vehicle	30
MSMRVS401	Assess and quote to service a recreational vehicle	40
MSMRVT201	Apply technical knowledge of recreational vehicle manufacturing to work activities	20
MSMSUP100	Apply workplace context to own job	20

Unit Code	Unit Title	Nominal Hours
MSMSUP101	Clean workplace or equipment	20
MSMSUP102	Communicate in the workplace	20
MSMSUP106	Work in a team	30
MSMSUP200	Achieve work outcomes	30
MSMSUP204	Pack products or materials	20
MSMSUP205	Transfer loads	20
MSMSUP210	Process and record information	30
MSMSUP230	Monitor process operations	30
MSMSUP240	Undertake minor maintenance	30
MSMSUP273	Handle goods	20
MSMSUP280	Manage conflict at work	20
MSMSUP291	Participate in continuous improvement	30
MSMSUP292	Sample and test materials and product	40
MSMSUP300	Identify and apply process improvements	40
MSMSUP301	Apply HACCP to the workplace	40
MSMSUP303	Identify equipment faults	40
MSMSUP309	Maintain and organise workplace records	20
MSMSUP310	Contribute to the development of workplace documentation	30
MSMSUP330	Develop and adjust a production schedule	30
MSMSUP382	Provide coaching/mentoring in the workplace	40
MSMSUP383	Facilitate a team	30
MSMSUP390	Use structured problem-solving tools	40
MSMSUP400	Develop and monitor quality systems	50

Unit Code	Unit Title	Nominal Hours
MSMSUP404	Coordinate maintenance	40
MSMSUP405	Identify problems in fluid power system	50
MSMSUP406	Identify faults in electronic control	50
MSMTMINS301	Inspect a range of simple measures	30
MSMTMINS302	Inspect a range of simple measuring instruments	30
MSMTMINS401	Inspect a range of weighing instruments	60
MSMTMINS402	Inspect liquid measuring instruments using volume measures	60
MSMTMINS403	Inspect a range of trading practices	50
MSMTMINS404	Inspect a range of pre-packaged products	60
MSMTMINS501	Inspect a range of complex measuring instruments	60
MSMTMREF301	Use and maintain reference standards	20
MSMTMVER301	Verify simple measures	30
MSMTMVER302	Verify simple measuring instruments	30
MSMTMVER401	Verify weighing instruments	60
MSMTMVER402	Verify liquid measuring instruments using volume measures	60
MSMTMVER403	Verify Inspector's Class reference standards	50
MSMTMVER501	Verify complex measuring instruments	50
MSMWHS100	Follow WHS procedures	20
MSMWHS110	Follow emergency response procedures	20
MSMWHS200	Work safely	30
MSMWHS201	Conduct hazard analysis	20
MSMWHS205	Control minor incidents	30
MSMWHS210	Undertake first response to non-fire incidents	20

Unit Code	Unit Title	Nominal Hours
MSMWHS212	Undertake first response to fire incidents	30
MSMWHS216	Operate breathing apparatus	20
MSMWHS217	Gas test atmospheres	30
MSMWHS218	Control the risks of falls	20
MSMWHS300	Facilitate the implementation of WHS for a work group	40
MSMWHS400	Contribute to WHS management system	40
MSMWHS401	Assess risk	40
MSMWHS503	Maintain WHS management system	50
MSMWHS510	Manage risk	50
MSMWHS601	Develop WHS management system	60
MSMWJ201	Use high pressure water jetting equipment	60
MSMWJ301	Operate a high pressure water jetting system	60
MSMWJ302	Operate a drain cleaning system	40
MSMWJ303	Operate a vacuum loading system	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
Engineering Industries – Automotive	The CMM Engineering Industries – Automotive can assist with enquiries regarding recreational vehicles qualifications and units of competency contained in this Purchasing Guide	Name: Pat Thornton Address: Private Bag 299, Somerton Vic 3062 Phone: 9425 5761 Email: pthornton@kangan.edu.au
Service Skills Organisation (SSO)		
Innovation & Business Skills Australia (IBSA)	This SSO is responsible for developing this MSM Manufacturing Training Package and can be contacted for further information.	Phone: 03 9815 7099 Email: manufacturing@ibsa.org.au SSO website can be found here .
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.	National Register website can be found here .
Australian Government		
Department of Employment, Skills, Small and Family Business	The Commonwealth Department is responsible for national policies and programmes that help Australians access quality vocational education and training.	The Commonwealth Department of Employment, Skills, Small and Family Business website can be found here
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 The Victorian Department of Education and Training website can be found here
National VET Regulatory Authority		
Australian Skills Quality Authority (ASQA)	ASQA is the national regulator for Australia's VET sector.	Info line: 1300 701 801 ASQA's website can be found here

Victorian 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 VRQA's website can be found here
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. Worksafe Victoria's website can be found here</p>

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.