



VICTORIAN PURCHASING GUIDE

MSM MANUFACTURING
TRAINING PACKAGE RELEASE 8.0

APRIL 2023



Jobs, Skills,
Industry
and Regions

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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 8.0	19 April 2023	<p>Release 8.0 of the MSM Manufacturing Training Package reflects changes to the Recreational Vehicle qualifications and units as follows:</p> <ul style="list-style-type: none">MSM21122 Certificate II in Recreational Vehicle Trade Pathways, with revised maximum payable hours, replaces MSM21015 Certificate II in Recreational Vehicle Service & Repair and MSM21115 Certificate II in Recreational Vehicle Manufacturing. <p>The following qualification has been revised with code-change and deemed not equivalent, with revised maximum payable hours:</p> <ul style="list-style-type: none">MSM41122 Certificate IV in Recreational Vehicles <p>The following qualifications have been revised with code-change and deemed equivalent:</p> <ul style="list-style-type: none">MSM31022 Certificate III in Recreational Vehicle Service and RepairMSM31122 Certificate III in Recreational Vehicle Manufacturing <p>Six new units have been developed as follows:</p> <ul style="list-style-type: none">MSMRV200 Complete basic recreational vehicle manual assembly tasksMSMRV370 Build recreational vehicle furnitureMSMRV389 Service and repair caravan and campervan chassis, suspensions and braking systemsMSMRV391 Diagnose recreational vehicle electrical faultsMSMRV401 Specify complex installations in recreational vehiclesMSMRV402 Assess, quote and organise recreational vehicle repairs and services <p>Twenty-three (23) Recreational Vehicle units have been revised and recoded.</p> <p>Deletions include five (5) units and the following two qualifications:</p> <ul style="list-style-type: none">MSM31215 Certificate III in Recreational Vehicle and Accessories RetailingMSM41115 Certificate IV in Recreational Vehicle and Accessories Retailing <p>Please refer to the Release 8.0 MSM Manufacturing Training Package Companion Volume - Implementation Guide for further details.</p>
Release 7.0	23 November 2021	<p>Release 7.0 of the MSM Manufacturing Training Package includes one new unit and four revised units of competency to support the high pressure water jetting industry, as follows:</p> <p>MSMWJ202 Use high-pressure water jetting equipment MSMWJ304 Operate a high-pressure water jetting system MSMWJ305 Operate a drain cleaning system MSMWJ306 Operate a vacuum loading system MSMWJ307 Operate a hydro excavation system</p> <p>No revisions or changes have been made to any MSM qualifications.</p>

Training Package Release	Date VPG Approved	Comments
		Please refer to the Release 7.0 MSM Manufacturing Training Package Companion Volume - Implementation Guide for further details.
Release 6.1	8 July 2021	<p>Release 6.1 of the MSM Manufacturing 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>Deletions include twenty-five (25) units and the following qualification:</p> <ul style="list-style-type: none"> ▪ MSM51015 Diploma of Recreational Vehicles. <p>Please refer to the Release 6.1 MSM Manufacturing Training Package Companion Volume - Implementation Guide for further details.</p>
Release 6.0	29 September 2020	<p>This VPG reflects Release 6.0 of the MSM Manufacturing Training Package which includes two new Recreational Vehicle units as follows:</p> <ul style="list-style-type: none"> ▪ MSMRV367 Fabricate frame structures ▪ MSMRV368 Install frame structure <p>For detailed mapping of qualifications and units between MSM Release 6.0 and MSM Release 5.0 please see Training Package Companion Volume Implementation Guide.</p>
Release 5.0	5 September 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>For detailed mapping of qualifications and units between MSM Release 5.0 and MSM Release 4.0 please see Training Package Companion Volume Implementation Guide.</p>
Release 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> <p>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:</p>

Training Package Release	Date VPG Approved	Comments
		<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>For detailed mapping of qualifications and units between MSM Release 4.0 and MSM Release 3.0 please see Training Package Companion Volume Implementation Guide.</p>
Release 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. Elements 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. <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>For detailed mapping of qualifications and units between MSM Release 3.0 and MSM Release 2.0 please see Training Package Companion Volume Implementation Guide.</p>
Release 2.0	7 July 2016	<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>For detailed mapping of qualifications and units between MSM Release 2.0 and MSM Release 2.0 please see Training Package Companion Volume Implementation Guide.</p>
Release 1.0	22 March 2016	<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

Training Package Release	Date VPG Approved	Comments
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- water jetting and vacuum draining units of competency
- high risk licensing units for boiler operations

For Process Manufacturing, Manufacturing Technology and Surface Preparation qualifications, refer to MSA07 Victorian Purchasing Guide:

Please also refer to MSM Release 1 [Implementation Guide](#) for further information.

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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 8.0 is provided in the Training Package Companion Volume Implementation Guide. (See 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 of MSM Manufacturing Training Package Release 8.0 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
MSM21122	Certificate II in Recreational Vehicle Trade Pathways	219	230
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
MSM31022	Certificate III in Recreational Vehicle Service and Repair	506	533
MSM31122	Certificate III in Recreational Vehicle Manufacturing	633	666
MSM40116	Certificate IV in Process Manufacturing	1045	1100
MSM41122	Certificate IV in Recreational Vehicles	632	665
MSM50316	Diploma of Production Management	751	790

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
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
MSMOPS401	Trial new process or product	60
MSMPCI101	Adapt to work in industry	30

Unit Code	Unit Title	Nominal Hours
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
MSMPMC301	Store materials for production	20
MSMPMC302	Operate equipment to blend/mix materials	40
MSMPMC303	Operate grinding equipment	40
MSMPMC304	Prepare for production	30
MSMPMC307	Operate a calcining kiln	30
MSMPMC308	Operate slip casting equipment	40
MSMPMC309	Finish products after firing	20
MSMPMC310	Hand mould products	30

Unit Code	Unit Title	Nominal Hours
MSMPMC311	Operate a firing kiln	30
MSMPMC312	Operate glass finishing equipment	40
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
MSMPMC329	Prepare moulds and dies	40
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
MSMRV200	Complete basic recreational vehicle manual assembly tasks	20
MSMRV201	Source and use recreational vehicle industry information	30
MSMRV367	Fabricate frame structures	40
MSMRV368	Install frame structures	20
MSMRV369	Install recreational vehicle floors and floor coverings	40
MSMRV370	Build recreational vehicle furniture	60
MSMRV371	Install recreational vehicle furniture	25
MSMRV372	Rough-in and fit-off recreational vehicle water systems	16
MSMRV373	Rough-in and fit-off recreational vehicle extra-low-voltage electrical systems	40

Unit Code	Unit Title	Nominal Hours
MSMRV374	Assemble and install recreational vehicle slide-outs	30
MSMRV375	Complete installing recreational vehicle walls and roofs	50
MSMRV376	Install recreational vehicle windows and doors	30
MSMRV377	Install recreational vehicle external items	20
MSMRV378	Complete recreational vehicle internal fit-outs	15
MSMRV379	Conduct recreational vehicle quality inspections	20
MSMRV380	Build towable recreational vehicle chassis	55
MSMRV381	Repair recreational vehicle walls and roofs	40
MSMRV382	Repair recreational vehicle roof-lifting equipment	10
MSMRV383	Repair recreational vehicle windows, doors and external items	30
MSMRV384	Repair recreational vehicle internal items	40
MSMRV385	Conduct routine, non-mechanical services of recreational vehicles	20
MSMRV386	Repair recreational vehicle extra-low-voltage electrical systems	30
MSMRV387	Conduct recreational vehicle pre-delivery checks	15
MSMRV388	Apply recreational vehicle transfers and decals	10
MSMRV389	Service and repair caravan and campervan chassis, suspensions and braking systems	50
MSMRV390	Service and repair recreational vehicle LPG systems	30
MSMRV391	Diagnose recreational vehicle electrical faults	40
MSMRV392	Tow recreational vehicles	10
MSMRV400	Hand over recreational vehicles to customers	15
MSMRV401	Specify complex installations in recreational vehicles	80
MSMRV402	Assess, quote and organise recreational vehicle repairs and services	40

Unit Code	Unit Title	Nominal Hours
MSMSUP100	Apply workplace context to own job	20
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

Unit Code	Unit Title	Nominal Hours
MSMSUP390	Use structured problem-solving tools	40
MSMSUP400	Develop and monitor quality systems	50
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
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 Inspectors' 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
MSMWHS212	Undertake first response to fire incidents	30
MSMWHS216	Operate breathing apparatus	20

Unit Code	Unit Title	Nominal Hours
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
MSMWJ202	Use high pressure water jetting equipment	60
MSMWJ304	Operate a high pressure water jetting system	80
MSMWJ305	Operate a drain cleaning system	60
MSMWJ306	Operate a vacuum loading system	40
MSMWJ307	Operate a hydro excavation system	100

CONTACTS AND LINKS

Curriculum Maintenance Manager (CMM) Services

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.

CMM Name: Paul Saunders.

Institute: Chisholm Institute.

Address: P.O 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 Victorian Purchasing Guide.

CMM Name: Pat Thornton.

Institute: Kangan Institute.

Address: Private Bag 299, Somerton, Victoria, 3062.

Phone: 0401 610 776

Email: pthornton@kangan.edu.au

Jobs and Skills Council (JSC) – Manufacturing Jobs And Skills Council

The Manufacturing Jobs And Skills Council (IBSA Group) is responsible for developing the MSM Manufacturing Training Package and can be contacted for further information.

Address: Level 5, 534 Church Street, Cremorne, Victoria, 3121.

Phone: (03) 9815 7099

Email: manufacturing@ibsa.org.au

Website: <https://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 Employment and Workplace Relations (DEWR)

The Commonwealth Department is responsible for national policies and programmes that help Australians access quality vocational education and training. See [Skills and Training - DEWR](#) for more information.

State Government - Department of Jobs, Skills, Industry and Regions (DJSIR)

DJSIR (formerly Department of Education and Training) is the State Training Authority responsible for supporting implementation of Vocational Education and Training (VET) in Victoria. See djsir.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)

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 (DJSIR) and are primarily developed for funding purposes in Victoria.