

MSM Manufacturing
TRAINING PACKAGE
Version 8
WA NOMINAL HOURS GUIDE

Introduction

This Guide has been generated to enable the stakeholders in this Industry in Western Australia to participate in the managed implementation of the National MSM Manufacturing Training Package.

This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing Training Package qualifications to new Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the endorsed components of the Training Package

Version 8 of the MSM Manufacturing Training Package was released by Training.Gov.Au (TGA) on the 03/02/2023.

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications in accordance with the Standards for RTOs. For further information visit the Training Accreditation Council website www.tac.wa.gov.au.

Nominal Hours

Nominal hours are the hours of training notionally required to achieve the outcomes of units of competency.

Nominal hours are identified for nationally endorsed qualifications. Nominal hours may vary for a qualification depending on the selection of units of competency.

In Western Australia, nominal hours are used as a mechanism for funding allocation.

Contact Details

For Training Packages content information, please contact:

Training Curriculum Services

Tel: (08) 6551 5541

Email: trainingpackages@dtwd.wa.gov.au

Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the training package.

National Code	National Title	Nominal Hours
MSM10116	Certificate I in Process Manufacturing	288
MSM10216	Certificate I in Manufacturing (Pathways)	270
MSM20116	Certificate II in Process Manufacturing	427
MSM20216	Certificate II in Manufacturing Technology	356
MSM21122	Certificate II in Recreational Vehicle Trade Pathways	181
MSM30116	Certificate III in Process Manufacturing	558
MSM30216	Certificate III in Surface Preparation and Coating Application	731
MSM30318	Certificate III in Manufactured Mineral Products	555
MSM30418	Certificate III in Fenestration	420
MSM31022	Certificate III in Recreational Vehicle Service and Repair	686
MSM31122	Certificate III in Recreational Vehicle Manufacturing	732
MSM40116	Certificate IV in Process Manufacturing	910
MSM41122	Certificate IV in Recreational Vehicles	546
MSM50316	Diploma of Production Management	496

Skill Sets and Nominal Hours

The following table provides a summary of the skill sets and nominal hours in the training package.

National Code	National Title	Nominal Hours
MSMSS00001	Licence to operate a standard boiler	40
MSMSS00002	Licence to operate an advanced boiler	60
MSMSS00007	Trade Measurement Inspection	130
MSMSS00008	Trade Measurement Verification (Complex Measuring Instrument)	70
MSMSS00009	Trade Measurement Verification (Limited Weighing Instrument)	80
MSMSS00010	Trade Measurement Verification (Liquid Measuring Instrument Using Volume Measures)	80
MSMSS00011	Trade Measurement Verification (Simple Measuring Instrument)	50
MSMSS00012	Trade Measurement Verification (Simple Measure)	50
MSMSS00013	Leading Hand/Supervisor	146
MSMSS00014	Confined space work team	96
MSMSS00015	Bioprocessing using fermentation	225
MSMSS00016	Bioprocessing using pyrolysis	125
MSMSS00017	Use high pressure water jetting equipment	127
MSMSS00018	Operate a high pressure water jetting system	142
MSMSS00019	Operate a drain cleaning system	127
MSMSS00020	Operate a vacuum loading system	107
MSMSS00021	Operate a hydro excavation system	162

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the training package.

National Code	National Title	Nominal Hours
MSMBIO301	Process biomass using pyrolyser	45
MSMBIO302	Ferment biomaterial to produce bioproducts	35
MSMBIO303	Distil bioproducts	35
MSMBIO304	Separate and recover bioproducts	35
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	20
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	20
MSMOPS102	Perform tasks to support production	30
MSMOPS200	Operate equipment	40
MSMOPS212	Use organisation computers or data systems	26
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	26
MSMPCI101	Adapt to work in industry	18
MSMPCI102	Apply effective work practices	18
MSMPCI103	Demonstrate care and apply safe practices at work	18

MSMPCII295	Operate manufacturing equipment	40
MSMPCII296	Make a small furniture item from timber	40
MSMPCII297	Make an object from cloth using an existing pattern	40
MSMPCII298	Make an object from metal	40
MSMPCII299	Make an object from plastic	40
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	15
MSMPMC301	Store materials for production	15
MSMPMC302	Operate equipment to blend/mix materials	30
MSMPMC303	Operate grinding equipment	40
MSMPMC304	Prepare for production	20
MSMPMC307	Operate a calcining kiln	40
MSMPMC308	Operate slip casting equipment	30
MSMPMC309	Finish products after firing	20
MSMPMC310	Hand mould products	30
MSMPMC311	Operate a firing kiln	30
MSMPMC312	Operate glass finishing equipment	40
MSMPMC321	Batch mix concrete	30
MSMPMC322	Deliver concrete to site	30
MSMPMC323	Prepare asphalt	40
MSMPMC324	Move materials	40
MSMPMC325	Operate bulk materials handling equipment	40

MSMPMC326	Deliver customer service	20
MSMPMC329	Prepare moulds and dies	40
MSMPMC400	Carry out stock control	20
MSMPMC401	Set up and tune a process	40
MSMPMC402	Process raw meal into product	50
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	25
MSMRV367	Fabricate frame structures	35
MSMRV368	Install frame structures	20
MSMRV369	Install recreational vehicle floors and floor coverings	35
MSMRV370	Build recreational vehicle furniture	55
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	35
MSMRV374	Assemble and install recreational vehicle slide-outs	25
MSMRV375	Complete installing recreational vehicle walls and roofs	45
MSMRV376	Install recreational vehicle windows and doors	25
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	50
MSMRV381	Repair recreational vehicle walls and roofs	35
MSMRV382	Repair recreational vehicle roof-lifting equipment	10
MSMRV383	Repair recreational vehicle windows, doors and external items	25
MSMRV384	Repair recreational vehicle internal items	35
MSMRV385	Conduct routine, non-mechanical services of recreational vehicles	20

MSMRV386	Repair recreational vehicle extra-low-voltage electrical systems	25
MSMRV387	Conduct recreational vehicle predelivery checks	15
MSMRV388	Apply recreational vehicle transfers and decals	10
MSMRV389	Service and repair recreational vehicle chassis, suspensions and braking systems	45
MSMRV390	Service and repair recreational vehicle LPG systems	25
MSMRV391	Diagnose recreational vehicle electrical faults	35
MSMRV392	Tow recreational vehicles	10
MSMRV400	Hand over recreational vehicles to customers	15
MSMRV401	Specify complex installations in recreational vehicles	70
MSMRV402	Assess, quote and organise recreational vehicle repairs and services	35
MSMSUP100	Apply workplace context to own job	26
MSMSUP101	Clean workplace or equipment	26
MSMSUP102	Communicate in the workplace	26
MSMSUP106	Work in a team	26
MSMSUP200	Achieve work outcomes	52
MSMSUP204	Pack products or materials	26
MSMSUP205	Transfer loads	26
MSMSUP210	Process and record information	13
MSMSUP230	Monitor process operations	26
MSMSUP240	Undertake minor maintenance	26
MSMSUP273	Handle goods	30
MSMSUP280	Manage conflict at work	20
MSMSUP291	Participate in continuous improvement	26
MSMSUP292	Sample and test materials and product	40
MSMSUP300	Identify and apply process improvements	40
MSMSUP301	Apply HACCP to the workplace	30
MSMSUP303	Identify equipment faults	26

MSMSUP309	Maintain and organise workplace records	26
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	20
MSMSUP390	Use structured problem-solving tools	40
MSMSUP400	Develop and monitor quality systems	50
MSMSUP404	Coordinate maintenance	26
MSMSUP405	Identify problems in fluid power system	40
MSMSUP406	Identify faults in electronic control	40
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
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	26
MSMWHS110	Follow emergency response procedures	26
MSMWHS200	Work safely	26
MSMWHS201	Conduct hazard analysis	20

MSMWHS205	Control minor incidents	26
MSMWHS210	Undertake first response to non-fire incidents	26
MSMWHS212	Undertake first response to fire incidents	26
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	60
MSMWHS401	Assess risk	60
MSMWHS503	Maintain WHS management system	50
MSMWHS510	Manage risk	50
MSMWJ202	Use high pressure water jetting equipment	55
MSMWJ304	Operate a high pressure water jetting system	70
MSMWJ305	Operate a drain cleaning system	55
MSMWJ306	Operate a vacuum loading system	35
MSMWJ307	Operate a hydro excavation system	90

Mapping Qualifications

The following table provides an overview of the qualifications from Version 8 which replace qualifications from the existing version of the MSM Manufacturing Training Package.

MSM Current Qualification				MSM Replacement Qualification		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MSM21015	Certificate II in Recreational Vehicle Service and Repair	331	NE	MSM21122	Certificate II in Recreational Vehicle Trade Pathways	181
MSM21115	Certificate II in Recreational Vehicle Manufacturing	372	NE			
MSM31015	Certificate III in Recreational Vehicle Service and Repair	447	E	MSM31022	Certificate III in Recreational Vehicle Service and Repair	686
MSM31115	Certificate III in Recreational Vehicle Manufacturing	516	E	MSM31122	Certificate III in Recreational Vehicle Manufacturing	732
MSM41115	Certificate IV in Recreational Vehicle and Accessories Retailing	823	NE	MSM41122	Certificate IV in Recreational Vehicles	546
MSM41015	Certificate IV in Recreational Vehicles	744	NE			
MSM41115	Certificate IV in Recreational Vehicle and Accessories Retailing	823	NE			

Mapping Skill Sets

The following table provides an overview of the skill sets from Version 8 which replace skill sets from the existing version of the MSM Manufacturing Training Package.

MSM Current Skill Set				MSM Replacement Skill Set		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between MSM v7.2 & v8

Mapping Units of Competency

The following table provides an overview of the Units of Competency from Version 8 which replace Units of Competency from the existing version of the MSM Manufacturing Training Package.

MSM Current Unit				MSM Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
			-	MSMRV200	Complete basic recreational vehicle manual assembly tasks	20
MSMRVT201	Apply technical knowledge of recreational vehicle manufacturing to work activities	20	NE	MSMRV201	Source and use recreational vehicle industry information	25
MSMRV310	Fit recreational vehicle floor	35	E	MSMRV369	Install recreational vehicle floors and floor coverings	35
			-	MSMRV370	Build recreational vehicle furniture	55
MSMRV311	Fit furniture in a recreational vehicle	25	E	MSMRV371	Install recreational vehicle furniture	25
MSMRV312	Fit water systems in a recreational vehicle	16	E	MSMRV372	Rough-in and fit-off recreational vehicle water systems	16
MSMRV322	Fit required external electrical components to a recreational vehicle	20	NE	MSMRV373	Rough-in and fit-off recreational vehicle extra-low-voltage electrical systems	35
MSMRV313	Fit 12 V cable systems in a recreational vehicle	20	NE			
MSMRV315	Construct and fit slide out in a recreational vehicle	25	E	MSMRV374	Assemble and install recreational vehicle slide-outs	25
MSMRV318	Fit cladding to a recreational vehicle	20	NE	MSMRV375	Complete installing recreational vehicle walls and roofs	45
MSMRV319	Fit front and rear moulds to a recreational vehicle	10	NE			
MSMRV314	Construct and fit roof to a recreational vehicle	20	NE			
MSMRV320	Fit windows and doors to a recreational vehicle	25	E	MSMRV376	Install recreational vehicle windows and doors	25
MSMRV321	Fit required external items to a recreational vehicle	20	E	MSMRV377	Install recreational vehicle external items	20
MSMRV323	Fit required internal items to a recreational vehicle	15	E	MSMRV378	Complete recreational vehicle internal fit-outs	15
MSMRV324	Conduct final quality inspection for a recreational vehicle	20	E	MSMRV379	Conduct recreational vehicle quality inspections	20
MSMRV325	Fabricate a chassis and suspension for a	40	NE	MSMRV380	Build towable recreational vehicle chassis	50

	recreational vehicle					
MSMRV352	Remove and replace a recreational vehicle sidewall cladding	20	NE	MSMRV381	Repair recreational vehicle walls and roofs	35
MSMRV358	Modify the body of a recreational vehicle	35	NE			
MSMRV361	Repair dry rot in a recreational vehicle	25	NE			
MSMRV356	Remove and replace gas struts and roof lifting equipment on a recreational vehicle	10	E	MSMRV382	Repair recreational vehicle roof-lifting equipment	10
MSMRV365	Remove and refit body moulding	10	NE	MSMRV383	Repair recreational vehicle windows, doors and external items	25
MSMRV357	Remove and replace external components of a recreational vehicle	20	NE			
MSMRV350	Remove and replace a recreational vehicle roof	20	NE			
MSMRV358	Modify the body of a recreational vehicle	35	NE	MSMRV384	Repair recreational vehicle internal items	35
MSMRV359	Install additional appliances in a recreational vehicle	20	NE			
MSMRV360	Service camper wind up systems	10	NE	MSMRV385	Conduct routine, non-mechanical services of recreational vehicles	20
MSMRV362	Install and repair battery systems in a recreational vehicle	15	NE	MSMRV386	Repair recreational vehicle extra-low-voltage electrical systems	25
MSMRV363	Complete pre-delivery check of a recreational vehicle	15	E	MSMRV387	Conduct recreational vehicle predelivery checks	15
MSMRV366	Fit transfers and decals to a recreational vehicle	10	E	MSMRV388	Apply recreational vehicle transfers and decals	10
			-	MSMRV389	Service and repair recreational vehicle chassis, suspensions and braking systems	45
MSMRVS202	Repair/service LPG systems in a recreational vehicle	25	E	MSMRV390	Service and repair recreational vehicle LPG systems	25
			-	MSMRV391	Diagnose recreational vehicle electrical faults	35
MSMRVG201	Tow a recreational vehicle safely	10	E	MSMRV392	Tow recreational vehicles	10
MSMRV364	Hand over a recreational vehicle to a customer	15	E	MSMRV400	Hand over recreational vehicles to customers	15
			-	MSMRV401	Specify complex installations in recreational vehicles	70
			-	MSMRV402	Assess, quote and organise recreational vehicle repairs and services	35

Apprenticeships

The following table provides a summary of the apprenticeships that have been affected by changes in this MSM Manufacturing Training Package update.

Please refer to the current *Register of Class A and B qualifications* found on the Department of Training and Workforce Development website for the official list of apprenticeships in Western Australia.

National Code	National Title	Apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
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No changes occurred between MSM v7.2 & v8

Traineeships

The following table provides a summary of the traineeships that have been affected by changes in this MSM Manufacturing Training Package update.

Please refer to the current *Register of Class A and B qualifications* found on the Department of Training and Workforce Development website for the official list of apprenticeships in Western Australia.

National Code	National Title	Traineeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MSM21115	Certificate II in Recreational Vehicle Manufacturing	TR07490: RECREATIONAL VEHICLE PRODUCTION ASSISTANT (LEVEL 2)	372	NE	MSM21122	Certificate II in Recreational Vehicle Trade Pathways	181
MSM31115	Certificate III in Recreational Vehicle Manufacturing	TR07500: RECREATIONAL VEHICLE PRODUCTION TEAM LEADER (LEVEL 3)	516	E	MSM31122	Certificate III in Recreational Vehicle Manufacturing	732

Pre-Apprenticeships

The following table provides a summary of the pre-apprenticeships that have been affected by changes in this MSM Manufacturing Training Package update.

Please refer to the current *list of pre-apprenticeship courses* found on the Department of Training and Workforce Development website for the official list of pre-apprenticeships in Western Australia.

National Code	National Title	Pre-Apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
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No changes occurred between MSM v7.2 & v8