

MSM: Manufacturing
TRAINING PACKAGE

Version 9.0

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 9.0 of the MSM Manufacturing Training Package was released by Training.Gov.Au (TGA) on the 03/12/2025.

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

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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
MSM30325	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
MSMSS00022	Precast concrete manufacture	130

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	Points
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	3
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	
MSMPMC333	Meet compliance and quality requirements in precast concrete manufacture	25	
MSMPMC334	Assemble, use and maintain moulds in precast concrete manufacture	35	
MSMPMC335	Fabricate, assemble and place reinforcement in precast concrete products	45	
MSMPMC336	Cast, finish and cure precast concrete products	50	
MSMPMC337	Prestress concrete in precast elements	45	
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 9.0 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
MSM30318	Certificate III in Manufactured Mineral Products	555	E	MSM30325	Certificate III in Manufactured Mineral Products	555

Mapping Skill Sets

The following table provides an overview of the skill sets from Version 9.0 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
			-	MSMSS00022	Precast concrete manufacture	130

Mapping Units of Competency

The following table provides an overview of the units of competency from Version 9.0 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
			-	MSMPMC333	Meet compliance and quality requirements in precast concrete manufacture	25
			-	MSMPMC334	Assemble, use and maintain moulds in precast concrete manufacture	35
			-	MSMPMC335	Fabricate, assemble and place reinforcement in precast concrete products	45
			-	MSMPMC336	Cast, finish and cure precast concrete products	50
			-	MSMPMC337	Prestress concrete in precast elements	45

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 v8 and v9

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
MSM30318	Certificate III in Manufactured Mineral Products	TR08280: PROCESS MANUFACTURED MINERAL PRODUCTS (LEVEL 3)	555	E	MSM30325	Certificate III in Manufactured Mineral Products	555

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 [Jobs and Skills WA 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 v8 and v9