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Introduction

Who is this guide for?

The MSM Companion Volume Implementation Guide is designed to support the implementation of the MSM Manufacturing Training Package Version 3.0. It has been developed to assist RTOs to meet the requirements of the Standards for RTOs.

MSM Version control and modification history

TP Release	Status	Release date	Approval process
3.0	Current	## June 2018	Endorsement
2.1	Replaced	12 January 2017	IRC upgrade
2.0	Replaced	2 June 2016	Endorsement
1.0	Replaced	15 December 2015	Endorsement

MSM Modification history details

MSM Release 3.0 - endorsement

1 new qualification, 36 new units and 6 imported units added to MSM Training Package.

Notes re MSA07 components

Previous releases of the MSM Manufacturing Training Package have not totally replaced or superseded MSA07.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. Refer to list in Appendix B for mapping information.

MSM Training Package mapping of changes

MSM Release 3 - changes to qualifications

E = equivalent N = Not equivalent

E/N
E

MSM Release 3 – changes to units of competency

E = equivalent N = Not equivalent

MSM Release 3			
Code	Title	Comment	E/N
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC200	Organise self	PMC561080 Organise self	
	Produce structural precast	Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC300	concrete	PMC553051 Produce structural precast concrete	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC301	Store materials for production	PMC561072 Store materials for production	
		Release 1. New unit. Supersedes and is equivalent to	E
	Operate equipment to	PMC552002 Operate equipment to blend/mix	
MSMPMC302	blend/mix materials	materials	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC303	Operate grinding equipment	PMC552003 Operate grinding equipment	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC304	Prepare for production	PMC552004 Prepare for production	
		Release 1. New unit. Supersedes and is equivalent to	E
	Heat accelerate the curing of	PMC552007 Heat accelerate the curing of precast	
MSMPMC305	precast concrete	concrete	
		Release 1. New unit. Supersedes and is equivalent to	Ε
MSMPMC306	Operate crushing equipment	PMC552008 Operate crushing equipment	
		Release 1. New unit. Supersedes and is equivalent to	Ε
MSMPMC307	Operate a calcining kiln	PMC552010 Operate a calcining kiln	
		Release 1. New unit. Supersedes and is equivalent to	E
MSMPMC308	Operate slip casting equipment	PMC552020 Operate slip casting equipment	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC309	Finish products after firing	PMC552023 Finish products after firing	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC310	Hand mould products	PMC552024 Hand mould products	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC311	Operate a firing kiln	PMC552030 Operate a firing kiln	
	Operate glass finishing	Release 1. New unit. Supersedes and is equivalent to	E
MSMPMC312	equipment	PMC552048 Operate glass finishing equipment	
	Schedule, cut and bend	Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC313	reinforcement	PMC552050 Schedule, cut and bend reinforcement	
		Release 1. New unit. Supersedes and is equivalent to	E
MSMPMC314	Finish green concrete products	PMC552051 Finish green concrete products	
		Release 1. New unit. Supersedes and is equivalent to	Ε
MSMPMC315	Cast moulded concrete products	PMC552052 Cast moulded concrete products	
		Release 1. New unit. Supersedes and is equivalent to	Ε
MSMPMC316	Finish cured concrete products	PMC552053 Finish cured concrete products	
		Release 1. New unit. Supersedes and is equivalent to	Ε
MSMPMC317	Conduct benching operations	PMC552055 Conduct benching operations	
		Release 1. New unit. Supersedes and is equivalent to	Ε
	Assemble, fabricate and place	PMC552056 Assemble, fabricate and place	
MSMPMC318	reinforcement	reinforcement	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC319	Finish casting operation	PMC552057 Finish casting operation	
		Release 1. New unit. Supersedes and is equivalent to	E
MSMPMC320	Demould concrete products	PMC552058 Demould concrete products	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC321	Batch mix concrete	PMC552060 Batch mix concrete	
MSMPMC322	Deliver concrete to site	Release 1. New unit. Supersedes and is equivalent to	Е

		PMC552061 Deliver concrete to site	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC323	Prepare asphalt	PMC552065 Prepare asphalt	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC324	Move materials	PMC562070 Move materials	
		Release 1. New unit. Supersedes and is equivalent to	Ε
	Operate bulk materials handling	PMC562071 Operate bulk materials handling	
MSMPMC325	equipment	equipment	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC326	Deliver customer service	PMC562081 Deliver customer service	
	Allocate and complete team	Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC327	tasks	PMC562083 Allocate and complete team tasks	
		Release 1. New unit. Supersedes and is equivalent to	Ε
	Prepare for and apply shotcrete	PMC552094 Prepare for and apply shotcrete for	
MSMPMC328	for installation	installation	
		Release 1. New unit. Supersedes and is equivalent to	Ε
MSMPMC329	Prepare moulds and dies	PMC553020 Prepare moulds and dies	
	Produce architectural precast	Release 1. New unit. Supersedes and is equivalent to	Ε
MSMPMC330	concrete	PMC553050 Produce architectural precast concrete	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC400	Carry out stock control	PMC563081 Carry out stock control	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC401	Set up and tune a process	PMC553000 Set up and tune a process	
		Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC402	Process raw meal into product	PMC553010 Process raw meal into product	
	Set up and optimise glass	Release 1. New unit. Supersedes and is equivalent to	Е
MSMPMC403	forming process	PMC553040 Set up and optimise glass forming process	

MSM Release 3 – additional imported units of competency

- PMAOPS101 Read dials and indicators
- CPCCCM1016A Identify requirements for safe tilt-up work
- MSAPMSUP201A Receive or despatch goods
- MSS402040 Apply 5S procedures
- MSS402051 Apply quality standards
- RIIMPO304D Conduct wheel loader operations

Qualifications, Skill Sets and Units of Competency in MSM Training Package

Qualifications

(Qualifications endorsed in Release 3)

Code	Title
MSM10116	Certificate I in Process Manufacturing
MSM10216	Certificate I in Manufacturing (Pathways)
MSM20116	Certificate II in Process Manufacturing
MSM20216	Certificate II in Manufacturing Technology
MSM21015	Certificate II in Recreational Vehicle Service and Repair
MSM21115	Certificate II in Recreational Vehicle Manufacturing
MSM30116	Certificate III in Process Manufacturing
MSM30216	Certificate III in Surface Preparation and Coating Application

MSM30318	Certificate III in Manufactured Mineral Products
MSM31015	Certificate III in Recreational Vehicle Service and Repair
MSM31115	Certificate III in Recreational Vehicle Manufacturing
MSM31215	Certificate III in Recreational Vehicle and Accessories Retailing
MSM40116	Certificate IV in Process Manufacturing
MSM41015	Certificate IV in Recreational Vehicles
MSM41115	Certificate IV in Recreational Vehicle and Accessories Retailing
MSM50316	Diploma of Production Management
MSM51015	Diploma of Recreational Vehicles

Skill Sets

The Skill Sets listed below have been developed to meet regulatory and licensing requirements.

MSMSS00001	Licence to operate a standard boiler
MSMSS00002	Licence to operate an advanced boiler
MSMSS00003	Use high pressure water jetting equipment
MSMSS00004	Operate a high pressure water jetting system
MSMSS00005	Operate a drain cleaning system
MSMSS00006	Operate a vacuum loading system
MSMSS00007	Trade Measurement Inspection
MSMSS00008	Trade Measurement Verification (Complex Measuring Instrument)
MSMSS00009	Trade Measurement Verification (Limited Weighing Instrument)
MSMSS00010	Trade Measurement Verification (Liquid Measuring Instrument Using Volume Measures)
MSMSS00011	Trade Measurement Verification (Simple Measuring Instrument)
MSMSS00012	Trade Measurement Verification (Simple Measure)
MSMSS00013	Leading Hand/Supervisor
MSMSS00014	Confined Space Work

MSM Units of competency

(Units endorsed in Release 3)

Unit code	Unit title	Prerequisites
MSMBLIC001	Licence to operate a standard boiler	
MSMBLIC002	Licence to operate an advanced boiler	
MSMENV172	Identify and minimise environmental hazards	
MSMENV272	Participate in environmentally sustainable work practices	
MSMENV472	Implement and monitor environmentally sustainable work practices	
MSMENV672	Develop workplace policy and procedures for environmental sustainability	
MSMOPS100	Use equipment	
MSMOPS101	Make measurements	
MSMOPS102	Perform tasks to support production	
MSMOPS200	Operate equipment	
MSMOPS201	Cut polymer materials	
MSMOPS202	Fabricate polymer products	
MSMOPS212	Use organisation computers or data systems	
MSMOPS244	Lay out and cut materials	
MSMOPS301	Treat corrosion	
MSMOPS363	Organise on-site work	

MSMOPS01 Trial new process or product MSMOPS011 Design equipment and system modifications MSMPC1103 Design equipment and system modifications MSMPC1103 Demonstrate care and apply safe practices at work MSMPC11295 Make a small furniture titem from time MSMPC11297 Make an object from doth using an existing pattern MSMPC11298 Make an object from metal MSMPC1299 Make an object from metal MSMPC1299 Make an object from metal MSMPC1290 Make an object from metal MSMPC1200 Monitor and control work permits MSMPER200 Monitor and control work permits MSMPER201 Monitor and control work permits MSMPER202 Observe permit work MSMPER202 Observe permit work MSMPER203 Issue work permits MSMPER200 Issue work permits MSMPER200 Organise self MSMPMC300 Produce structural precast concrete MSMPMC300 Produce structural precast concrete MSMPMC301 Operate equipment to blend/mix materials MSMPMC302 Operate equipment to blend/mix materials MSMPMC303 Prepare for production MSMPMC304 Prepare for production MSMPMC305 Heat accelerate the curing of precast concrete MSMPMC306 Produce structural precast concrete MSMPMC307 Operate acidining kiln MSMPMC308 Prepare for production MSMPMC309 Finish products after fring MSMPMC309 Finish products after fring MSMPMC309 Finish precipicate acidining kiln MSMPMC309 Finish precipicate acidining kiln MSMPMC310 Operate gliss sinking equipment MSMPMC311 Operate gliss finishing equipment MSMPMC312 Operate gliss finishing equipment MSMPMC313 Operate gliss finishing equipment MSMPMC314 Finish green concrete products MSMPMC315 Cast moulded concrete products MSMPMC316 Finish cured concrete products MSMPMC317 Prepare for concrete products MSMPMC318 Finish cured concrete products MSMPMC319 Finish cured concrete products MSMPMC319 Finish cured concrete products MSMPMC319 Deliver customer service MSMPMC319 Finish cured concrete products MSMPMC319 Finish cured concrete products MSMPMC319 Finish cured concrete products MSMPMC320 Deliver customer service MSMPMC321 Prepare apphalt MSMPMC321 Deliver customer service MSMPMC322	14614006400	In	
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MSMRV310 Fit recreational vehicle floor MSMRV311 Fit furniture in a recreational vehicle MSMRV312 Fit water systems in a recreational vehicle	MSMPMC402	Process raw meal into product	MSMPMC307
MSMRV311 Fit furniture in a recreational vehicle MSMRV312 Fit water systems in a recreational vehicle	MSMPMC403	Set up and optimise glass forming process	
MSMRV312 Fit water systems in a recreational vehicle	MSMRV310	Fit recreational vehicle floor	
	MSMRV311	Fit furniture in a recreational vehicle	
MCMDV212 Fit 12 V poble quotores in a represtignal visit in	MSMRV312	Fit water systems in a recreational vehicle	
IVISIVIK V 5 1.5 FIT 1.2 V Capie systems in a recreational venicle	MSMRV313	Fit 12 V cable systems in a recreational vehicle	

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MSMRV314	Construct and fit roof to a recreational vehicle	
MSMRV315	Construct and fit slide out in a recreational vehicle	
MSMRV316	Fit appliances in a recreational vehicle	
MSMRV317	Install solar equipment on a recreational vehicle	
MSMRV318	Fit cladding to a recreational vehicle	
MSMRV319	Fit front and rear moulds to a recreational vehicle	
MSMRV320	Fit windows and doors to a recreational vehicle	
MSMRV321	Fit required external items to a recreational vehicle	
MSMRV322	Fit required external electrical components to a recreational vehicle	
MSMRV323	Fit required internal items to a recreational vehicle	
MSMRV324	Conduct final quality inspection for a recreational vehicle	
MSMRV325	Fabricate a chassis and suspension for a recreational vehicle	
MSMRV350	Remove and replace a recreational vehicle roof	
MSMRV351	Remove and replace a recreational vehicle floor	
MSMRV352	Remove and replace a recreational vehicle sidewall cladding	
MSMRV353	Remove and replace a recreational vehicle shower cubicle	
MSMRV354	Remove and replace a recreational vehicle shower cubicle	
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MSMRV355	Remove and replace a camper/pop-top roof	
MSMRV356	Remove and replace a gas struts and roof lifting equipment on a	
NACNADV/257	recreational vehicle	
MSMRV357	Remove and replace external components of a recreational vehicle	
MSMRV358	Modify the body of a recreational vehicle	
MSMRV359	Install additional appliances in a recreational vehicle	
MSMRV360	Service camper wind up systems	
MSMRV361	Repair dry rot in a recreational vehicle	
MSMRV362	Install and repair battery systems in a recreational vehicle	
MSMRV363	Complete pre-delivery check of a recreational vehicle	
MSMRV364	Hand over a recreational vehicle to a customer	
MSMRV365	Remove and refit body moulding	
MSMRV366	Fit transfers and decals to a recreational vehicle	
MSMRVG201	Tow a recreational vehicle safely	
MSMRVS202	Repair/service LPG systems in a recreational vehicle	
MSMRVS401	Assess and quote to service a recreational vehicle	
MSMRVT201	Apply technical knowledge of recreational vehicle manufacturing to	
	work activities	
MSMSUP100	Apply workplace context to own job	
MSMSUP101	Clean workplace or equipment	
MSMSUP102	Communicate in the workplace	
MSMSUP106	Work in a team	
MSMSUP200	Achieve work outcomes	
MSMSUP204	Pack products or materials	
MSMSUP205	Transfer loads	
MSMSUP210	Process and record information	
MSMSUP230	Monitor process operations	
MSMSUP240	Undertake minor maintenance	
MSMSUP273	Handle goods	
MSMSUP280	Manage conflict at work	
MSMSUP291	Participate in continuous improvement	
MSMSUP292	Sample and test materials and product	
MSMSUP300	Identify and apply process improvements	
MSMSUP301	Apply HACCP to the workplace	
MSMSUP303	Identify equipment faults	
MSMSUP309	Maintain and organise workplace records	
MSMSUP310	Contribute to the development of workplace documentation	
MSMSUP330	Develop and adjust a production schedule	
MSMSUP382	Provide coaching/mentoring in the workplace	

MSMSUP383	Facilitate a team	
MSMSUP390	Use structured problem solving tools	
MSMSUP400	Develop and monitor quality systems	
MSMSUP404	Coordinate maintenance	
MSMSUP405	Identify problems in fluid power system	
MSMSUP406	Identify faults in electronic control	
MSMTMINS301	Inspect a range of simple measures	
MSMTMINS302	Inspect a range of simple measuring instruments	
MSMTMINS401	Inspect a range of simple measuring instruments	
MSMTMINS402	Inspect a range of weighing instruments Inspect liquid measuring instruments using volume measures	
MSMTMINS403	Inspect a range of trading practices	
MSMTMINS404	Inspect a range of trading practices Inspect a range of pre-packaged products	
MSMTMINS501	Inspect a range of pre-packaged products Inspect a range of complex measuring instruments	
MSMTMREF301	Use and maintain reference standards	
MSMTMVER301	Verify simple measures	
MSMTMVER302	Verify simple measuring instruments	
MSMTMVER401	Verify weighing instruments	
MSMTMVER402	Verify liquid measuring instruments using volume measures	
MSMTMVER403	Verify inspector's class reference standards	
MSMTMVER501	Verify complex measuring instruments	
MSMWHS100	Follow WHS procedures	
MSMWHS110	Follow emergency response procedures	
MSMWHS200	Work safely	
MSMWHS201	Conduct hazard analysis	
MSMWHS205	Control minor incidents	
MSMWHS210	Undertake first response to non-fire incidents	
MSMWHS212	Undertake first response to fire incidents	
MSMWHS216	Operate breathing apparatus	
MSMWHS217	Gas test atmospheres	
MSMWHS218	Control the risks of falls	
MSMWHS300	Facilitate the implementation of WHS for a work group	MSMWHS200
MSMWHS400	Contribute to WHS management system	
MSMWHS401	Assess risk	
MSMWHS503	Maintain WHS management system	
MSMWHS510	Manage risk	
MSMWHS601	Develop WHS management system	
MSMWJ201	Use high pressure water jetting equipment	
MSMWJ301	Operate a high pressure water jetting system	
MSMWJ302	Operate a drain cleaning draining system	
MSMWJ303	Operate a vacuum loading system	

Imported units of competency – Releases 1, 2 and 3

(Additional imported units included in Release 3)

Unit code	Unit title	Prerequisites
AUMANA001	Prepare and document quotations	
AUMFTA001	Document manufacturing design processes	
AUMGTT001	Apply trim to vehicle components	
AURAAA002	Determine retail rates for automotive products and services	
AURACA001	Respond to customer needs and enquiries in an automotive workplace	
AURACA002	Manage complex customer requirements in an automotive workplace	

AURACA003	Build customer relations in an automotive workplace		
AURAFA004	Resolve routine problems in an automotive workplace		
AURAFA007	Develop and document specifications and procedures		
AURAKA002	Adapt work processes to new technologies in an automotive		
AUKAKAUUZ	workplace		
AURALA001	Comply with legal aspects of a service and repair contract in an		
	automotive workplace		
AURAMA004	Maintain business image in an automotive workplace		
AURAMA005	Manage complex customer issues in an automotive workplace		
AURAMA006	Contribute to planning and implementing business improvement		
	in an automotive workplace		
AURANN001	Estimate and quote automotive body repairs		
AURATA005	Estimate and quote automotive mechanical and electrical repairs		
AURC341903A	Apply relevant finance, leasing and insurance contracts/policies		
AURETB001	Diagnose and repair electric braking systems		
AURETR012	Test and repair basic electrical circuits		
AURETR015	Inspect, test and service batteries		
AURSAA001	Process customer complaints in an automotive workplace		
AURSBA3002	Identify and match uncommon automotive parts		
AURSCA001	Select and supply automotive parts and products		
AURSCA002	Present automotive products and services for sale		
AURSCA003	Apply sales procedures in an automotive workplace		
AURSCA004	Carry out cash and non-cash payment operations		
AURSCA005	Sell automotive products and services		
AURSCA006	Promote automotive products and services		
AURSLA001	Comply with legal requirements when selling automotive products		
7.01.027.001	and services		
AURTNA001	Estimate and quote automotive vehicle or machinery		
	modifications		
AURTTA017	Carry out vehicle safety inspections		
AURTTB001	Inspect and service braking systems		
AURTTD004	Inspect and service suspension systems		
AURTTJ002	Remove, inspect and refit wheel hubs and associated brake		
	components		
AURTTY001	Repair vehicle chassis, frame and associated components		
AURV365356A	Read and interpret vehicle body repair estimation/quotation		
AURVTG011	Install side vehicle windows		
AURVTN032	Inspect vehicle damage and determine repair procedures		
AURVTS004	Repair vehicle composite material components		
AURVTT015 Fabricate and install canvas products for automotive and marine			
ALIDVITTO10	components		
AURVTT019	Fabricate and install automotive and marine frames, canopies and side curtains		
AURVTT3016	Fabricate frame structures		
BSBADM502	Manage meetings		
BSBCUS501	Manage quality customer service		
BSBFIM501	Manage duality customer service Manage budgets and financial plans		
BSBINM501	Manage an information or knowledge management system		
BSBLDR402			
BSBLED401	Lead effective workplace relationships		
BSBMGT401	Develop teams and individuals Show leadership in the workplace		
BSBMGT403	Implement continuous improvement	<u> </u>	

BSBMGT502	Manage people performance		
BSBMGT605			
	Provide leadership across the organisation		
BSBWHS401	Implement and monitor WHS policies, procedures and programs to meet legislative requirements		
BSBWRK510	Manage employee relations		
BSBWRT401	Write complex documents		
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CPCCCM1016A	Identify requirements for safe tilt-up work		
CPCPCM2043A	Carry out WHS requirements		
CPCPGS3046A	Install LPG systems in caravans, mobile homes and mobile	CPCPCM2043A	
ENCODOTO1	workplaces		
FNSORG501	Develop and manage a budget		
FPICOT2238	Cut materials with a hand-held chainsaw		
HLTAID003	Provide first aid		
LMTCL2001B	Use a sewing machine		
LMTCL2003B	Identify fibres and fabrics		
LMTCL2006B	Press work		
LMTCL2007B	Lay up, mark and cut uncomplicated fabrics and lays		
LMTCL2008B	Finish garment production	LMTCL2003B	
LMTGN2008B	Coordinate work of team/section		
MEM03001B	Perform manual production assembly		
MEM03006B	Set assembly stations	MEM03001B	
		MEM18001C	
		MEM03003B	
		MEM18002B	
		MEM03004B	
MEM05005B	Carry out mechanical cutting	MEM12023A	
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MEM05007C	Perform manual heating and thermal cutting		
MEM05012C	Perform routine manual metal arc welding		
MEM05050B	Perform routine gas metal arc welding		
MEM07001B	Perform operational maintenance of machines/equipment	MEM18001C	
MEM07024B	Operate and monitor machine/process		
MEM07028B	Operate computer controlled machines/processes	MEM07024B	
MEM08002C	Pre-treat work for subsequent surface coating	MEM13003B	
MEM08007B	Control surface finish production and finished product quality		
MEM08011B	Prepare surfaces using solvents and/or mechanical means	MEM13003B	
		MEM18001C	
1451400042B		MEM18002B	
MEM08012B	Prepare surfaces by abrasive blasting (basic)	MEM08016B MEM13003B	
MEM08013B	Prepare surfaces by abrasive blasting (advanced)	MEM08012B	
INICINIOOOTSB	Prepare surfaces by abrasive blasting (advanced)	MEM08016B	
		MEM13003B	
MEM08014B	Apply protective coatings (basic)	MEM13003B	
MEM08015B	Apply protective coatings (advanced)	MEM08014B	
	(11)	MEM13003B	
MEM08016B	Control blast coating by-products, materials and emissions	MEM13003B	
MEM09002B	Interpret technical drawing		
MEM09009C	Create 2D drawings using computer-aided design (CAD) system	MEM09002B	
	Create 2D drawings using computer aided design system	MEM16008A	
MEM09204A	Produce basic engineering detail drawings	MEM09002B	
MEM09210A	Create 3-D solid models using computer-aided design (CAD) system	MEM09002B	
		MEM30031A	
MEM10002B	Terminate and connect electrical wiring	MEM09002B	

		MEM12002B
		MEM18001C
MEM11001C	Erect/dismantle scaffolding and equipment	MEM18001C
MEM11002C	Erect/dismantle complex scaffolding and equipment	MEM11001C
	MEM1800	
MEM11003B	Coordinate erection/dismantling of complex	MEM11001C
	scaffolding/equipment	MEM11002C
		MEM18001C
MEM11004B	Undertake dogging	MEM18001C
MEM11005B	Pick and process order	
MEM11006B	Perform production packaging	
MEM11007B	Administer inventory procedures	
MEM11010B	Operate mobile load shifting equipment	
MEM11011B	Undertake manual handling	
MEM11012B	Purchase materials	
MEM11015B	Manage warehouse inventory system	MEM11007B
	That age transfer and the state of the state	MEM15002A
MEM11016B	Order materials	
MEM11017B	Organise and lead stocktakes	MEM11007B
MEM11021B	Perform advanced operation of load shifting equipment	MEM11010B
MEM11022B	Operate fixed/moveable load shifting equipment	
MEM12001B	Use comparison and basic measuring devices	
MEM12002B	Perform electrical/electronic measurement	
MEM12023A	Perform engineering measurements	
MEM12024A	Perform computations	
MEM13001B	Perform emergency first aid	
MEM13002B	Undertake occupational health and safety activities in the	
	workplace	
MEM13003B	Work safely with industrial chemicals and materials	
MEM13010A	Supervise occupational health and safety in an industrial work	MEM13002B
	environment	
MEM14001B	Schedule material deliveries	
MEM14002B	Undertake basic process planning	
MEM14003B	Undertake basic production scheduling	
MEM14004A	Plan to undertake a routine task	
MEM14005A	Plan a complete activity	
MEM15001B	Perform basic statistical quality control	
MEM15002A	Apply quality systems	
MEM15003B	Use improvement processes in team activities	MEM16007A
MEM15004B	Perform inspection	
MEM15005B	Select and control inspection processes and procedures	MEM15004B
MEM15024A	Apply quality procedures	
MEM16002C	Conduct formal interviews and negotiations	
MEM16003B	Provide advanced customer service	
MEM16005A	Operate as a team member to conduct manufacturing, engineering	
	or related activities	
MEM16006A	Organise and communicate information	
MEM16007A	Work with others in a manufacturing, engineering or related	
	environment	
MEM16008A	Interact with computing technology	
MEM16009A	Research and analyse engineering information	MEM16006A MEM16012A
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MEM16012A	Interpret technical specifications and manuals		
MEM16013A	Operate in a self-directed team	MEM16007A	
MEM17001B	Assist in the development and delivery of training in the workplace		
MEM17003A	Assist in the provision of on the job training		
MEM18001C	Use hand tools		
MEM18002B	Use power tools/hand held operations		
MEM18032B	Maintain wheels and tyres MEM18001		
MEM18038B	Fault find/repair electrical equipment/components up to 250 volts	MEM09002B	
WIEIWIIOO+3D	single phase supply	MEM10002B	
	, G = P = 1 = 1 = 1 = 1	MEM12002B	
		MEM12023A	
		MEM18001C	
		MEM18002B	
MEM22015A	Source and estimate engineering materials requirements		
MEM30013A	Assist in the preparation of a basic workplace layout		
MEM30031A	Operate computer-aided design (CAD) system to produce basic		
	drawing elements		
MSAPMSUP201A	Receive or despatch goods		
MSFFM1002	Operate basic woodworking machines		
MSFFM2001	Use furniture making sector hand and power tools		
MSFFM2002	Assemble furnishing components		
MSFFM2003	Select and apply hardware		
MSFFM2005	Join solid timber		
MSFSF1001	Produce basic soft furnishings accessories		
MSFSF2001	Cut single layer fabrics		
MSL936001A	Maintain quality system and continuous improvement processes		
	within work or functional area		
MSL973001A	Perform basic tests		
MSL974003A	Perform chemical tests and procedures		
MSS015002A	Develop strategies for more sustainable use of resources		
MSS015015A	Evaluate sustainability impact of a process		
MSS402001A	Apply competitive systems and practices		
MSS402002A	Sustain process improvements		
MSS402010A	Manage the impact of change on own work		
MSS402020A	Apply quick changeover procedures		
MSS402021A	Apply Just in Time procedures		
MSS402030A	Apply cost factors to work practices		
MSS402031A	Interpret product costs in terms of customer requirements		
MSS402040	Apply 5S procedures		
MSS402040A	Apply 5S procedures (remains valid for Release 2.1 components)		
MSS402050A	Monitor process capability		
MSS402051	Apply quality standards		
MSS402051A	Apply quality standards (remains valid for Release 2.1 components)		
MSS402060A	Use planning software systems in operations		
MSS402080A	Undertake root cause analysis		
MSS402081A	Contribute to the application of a proactive maintenance strategy		
MSS403002A	Ensure process improvements are sustained		
MSS403010A	Facilitate change in an organisation implementing competitive		
141334030107	systems and practices		
MSS403011A	Facilitate implementation of competitive systems and practices		
MSS403013A	Lead team culture improvement		
	Facilitate a Just in Time system		

MSS403030A	Improve cost factors in work practices	1
MSS403040A	Facilitate and improve implementation of 5S	
MSS403040A	Facilitate and improve implementation of 33	
	Mistake proof an operational process	
MSS403051A	·	
MSS404050A MSS404052A	Undertake process capability improvements MSS404052A	
	Apply statistics to operational processes	
MSS404060A	Facilitate the use of planning software systems in a work area or team	
MSS404081A	Undertake proactive maintenance analyses	
MSS404082A	Assist in implementing a proactive maintenance strategy	
MSS405003A	Manage a value stream	
MSS405011A	Manage people relationships	
MSS405012A	Manage workplace learning	
MSS405022A	Design a process layout	
MSS405030A	Optimise cost of product or service	
MSS405031A	Undertake value analysis of a product or process costs in terms of	
	customer requirements	
MSS405032A	Analyse cost implications of maintenance strategy	
MSS405041A	Implement improvement systems in an organisation	
MSS405050A	Determine and improve process capability	MSS404052A
MSS405053A	Manage application of six sigma for process control and improvement	MSS404052A
MSS405060A	Develop the application of enterprise control systems in an organisation	
MSS405061A	Determine and establish information collection requirements and processes	
MSS405070A	Develop and manage sustainable energy practices	
MSS405075A	Facilitate the development of a new product	MSS404052A
MSS405081A	Develop a proactive maintenance strategy	
MSS405081A	Develop a proactive maintenance strategy	
MSS405082A	Adapt a proactive maintenance strategy to the process operations	MSS405081A
	sector	
PMAOMIR407	Audit incident preparedness and established response systems	
PMAOMIR418	Coordinate incident response	
PMAOMIR424	Develop and maintain community relationships	
PMAOMIR430	Conduct and assess incident exercises	
PMAOMIR444	Develop incident containment tactics	
PMAOMIR449	Monitor legal compliance obligations during incidents	
PMAOPS101	Read dials and indicators	
PMAOPS105	Select and prepare materials	
PMAOPS280	Interpret process plant schematics	
PMAOPS402	Respond to abnormal process situations	
PMAOPS405	Operate complex control systems	
PMAOPS410	Monitor remote production facilities	
PMAOPS411	Manage plant shutdown and restart	
PMAOPS433	Manage wells and gathering systems	
PMAOPS434	Commission wells and gathering systems	
PMAOPS450	Solve colour problems	
PMAOPS460	Monitor and operate tailings management facilities	
PMAOPS500	Optimise production systems	
PMASUP410	Develop plant documentation	
PMASUP420	Minimise environmental impact of process	

PMASUP432	Coordinate pipeline projects		
PMASUP440	Coordinate pipeline projects Commission/recommission plant		
PMASUP441	Decommission plant		
	Plan plant preparation and isolation		
PMASUP444			
PMASUP445 PMASUP520			
	Review procedures to minimise environmental impact of process		
PMASUP620	Manage environmental management system		
PMAWHS420	Develop first aid procedures and manage resources		
PMBFIN201C	Finish products and components		
PMBFIN205C	Hand decorate products		
PMBHAN103C	Shift materials safely by hand		
PMBPREP205C	Assemble materials and equipment for production		
PMBPREP206C	Prepare materials to formulae		
PMBPREP304C	Set a die		
PMBPROD236C	Operate hand held air/power equipment for production processes		
PMBPROD240C	Cut materials		
PMBPROD241C	Lay up rubber lining or lag pulleys		
PMBPROD242A	Bond polymers to surfaces		
PMBPROD247C	Hand lay up composites		
PMBPROD248C	Prepare surfaces for coating		
PMBPROD265C	Operate portable vulcanising equipment		
PMBPROD280B	Operate resin-glass depositor equipment		
PMBPROD323C	Produce powder coated products		
PMBPROD347B	Produce composites using hand lamination	PMBPROD247C	
PMBPROD375B	Vulcanise products using an autoclave		
PMBPROD380B	Produce composites using chopper/gun depositor	PMBPROD280A	
PMBPROD430B	Trial a new die/tool		
PMBPROD431B	Trial a new, advanced or complex mould		
PMBTECH301B	Use materials and process knowledge to solve problems		
PMBTECH401B	Predict polymer properties and characteristics	PMBTECH301B	
PMBTECH402B	Set advanced or complex dies	PMBPREP304C	
PMBTECH403B	Test fibre-composites materials and laminates		
PMBTECH404B	Mould chemical resistant and/or fire retardant fibre-composites	PMBPROD347B OR PMBPROD380B	
PMBTECH405B	Repair damaged fibre-composites structures		
PMBTECH406BA	Diagnose production equipment problems		
PSPGEN029	Value diversity		
PSPHRM004	Implement workforce planning and succession strategies		
PSPPM402B	Manage simple projects		
PSPPM501B	Design complex projects		
PSPPM502B	Manage complex projects		
PSPPM503B	Close complex projects		
RIIMPO304D	Conduct wheel loader operations		
SIRRMER003	Coordinate visual merchandising activities		
SIRXINV004A	Buy merchandise		
SIRXMER004A	Manage merchandise and store presentation		
SIRXPDK001	Advise on products and services		
SIRXPDK001	Advise on products and services		
SIRXRSK001A	Minimise theft		
SIRXRSK002	Maintain store security		
5.10.11.5NO02	atam store security		

	,	
SIRXSLS002	Follow point-of-sale procedures	
SITXMGT002	Establish and conduct business relationships	
SITXMPR001	Coordinate production of brochures and marketing materials	
SITXMPR002	Create a promotional display or stand	
SITXMPR004	Coordinate marketing activities	
TAEASS401	Plan assessment activities and processes	
TAEASS402	Assess competence	
TAEASS403	Participate in assessment validation	
TAEDEL301	Provide work skill instruction	
TLIA5058	Manage facility and inventory requirements	
TLID2010	Operate a forklift	
TLIL4059	Implement asset management systems	
TLIL5055	Manage a supply chain	
TLIP4013	Implement and monitor logistics planning and process	
TLIR4003	Negotiate a contract	
TLIR4008	Implement and supervise stocktaking procedures	
TLIR4009	Implement purchasing systems	
TLIR4010	Plan purchasing	
TLIR5005	Manage a contract	
TLIR5006	Develop, implement and review purchasing strategies	
TLIX5015	Establish supply chains	
UEGNSG615A	Fill LPG gas cylinders	

Mapping of MSM Release 3 to MSM Release 2

Detailed mapping and equivalence tables:

- Appendix A: Mapping of qualifications
- Appendix B: Mapping of units of competency

Key work and training requirements

MSM Manufacturing Training Package includes qualifications and units of competency for a range of sectors of the manufacturing industry.

- Manufacturing (2 qualifications designed for delivery in schools)
- Process manufacturing (4 qualifications)
- Surface preparation and coating (1 qualification)
- Manufactured Mineral Products (1 qualification)
- Production management (1 qualification)
- Trade measurement (14 units of competency)
- Recreational vehicles (8 qualifications)
- High risk work boiler operations (2 units)
- Water jetting (4 units)

Manufacturing

MSM10216 Certificate I in Manufacturing (Pathways)

The Certificate I in Manufacturing (Pathways) provides a generic, cross manufacturing Certificate I designed for delivery in schools to:

- develop both employability and technical skills
- allow for selection of competency standards from a range of manufacturing Training Packages
- encourage collaborative delivery and assessment approaches
- map to existing qualifications
- include opportunities for recognition against existing qualifications
- provide a clear pathway into other Training Package qualifications and/or employment.

The Certificate I in Manufacturing (Pathways) also responds to the need to:

- provide pathways for individuals who have had limited access to formal vocational education and training
- ensure consistency with existing Certificate I qualifications
- ensure that employment related solutions are encouraged throughout the structure of the qualifications and that guideline materials provided are in alignment with licensing boundaries
- make employability and generic skills 'front and centre' in the development of qualifications
- provide opportunities for new pedagogical approaches and for local input.

MSM20216 Certificate II in Manufacturing Technology

The MSM20216 Certificate II in Manufacturing Technology has been developed specifically for use as a VET in Schools program. It provides students with a set of competencies that collectively open up pathways into employment and/or further study.

Process Manufacturing

MSM10116 Certificate I in Process Manufacturing MSM20116 Certificate II in Process Manufacturing MSM30116 Certificate III in Process Manufacturing MSM40116 Certificate IV in Process Manufacturing

Process manufacturing is the production of goods that are typically produced in bulk quantities, as opposed to discrete and countable units. The industry sectors include:

- chemical, hydrocarbons and refining
- plastics, rubber and cablemaking
- manufactured mineral products.

The generic process manufacturing qualifications provide the competencies required by workers in manufacturing filling vital production support roles but who may not have the opportunity to develop competency in sufficient technical units related directly to producing products. They also apply to employees who operate across more than one category within process manufacturing or 'specialised processes' and elsewhere when required.

Surface Preparation and Coating

MSM30216 Certificate III in Surface Preparation and Coating Application

This qualification provides the trade-level competencies required to perform the wide range of surface preparation and protective coating application operations which occur across a range of typically heavy industry, ships and infrastructure.

The CSIRO estimates the cost of corrosion in Australia to be around \$13 billion per year. The major role for this sector is the control of corrosion and reduction of this significant cost. Protective coatings need to be applied to much of public infrastructure (e.g. bridges, pipelines), some modes of transport (e.g. ships, submarines), and many large public and private structures (e.g. hydrocarbon, chemical plants, off shore oil/gas platforms). All these items need to have their surfaces prepared correctly before beginning to apply the appropriate coating. Time between preparation and application is often critical to the overall success of the final product.

The increasingly technical nature of the protective coating and the need to undertake both adequate preparation and surface preparation safely and in an environmentally friendly manner has increased the need for this particular qualification. These technological advances have increased the life of the item, and the period between maintenance and the overall life. However, as surface preparation and coating becomes more technical, the ability to perform both correctly becomes more critical if the intended protection is to be achieved.

As much of this work is done 'on site' with routine only supervision, it is essential that the qualification equips the operator for this level of independent operation.

Manufactured Mineral Products

MSM30318 Certificate III in Manufactured Mineral Products

This qualification provides the competencies for operators working in manufactured mineral products industries who perform a range of operations to directly produce manufactured mineral products for industries, including cement, pre-cast concrete, pre-mixed concrete, quarry and asphalt.

This diverse industry typically interfaces with the extractive industries (e.g. mining, quarrying, blasting etc.) upstream, although some companies are specifically involved in the extractive industries. The industry primarily produces a range of products which are commonly used by other industries rather than directly consumed by the public. Downstream industries include building and construction (cement, concrete products, cement products), civil construction (cement, concrete products, asphalt), and landscaping industry (concrete blocks and pavers).

The MSM30318 Certificate III in Manufactured Mineral Products provides skills development for the following occupations:

- precast concrete technicians
- cement specialists (production and operations)
- plant operators
- plant technicians.

Production Management

MSM50316 Diploma of Production Management

This qualification provides the competencies required to plan, direct and coordinate production activities in a manufacturing environment. It applies to roles relating to improving production, such as production or operations managers.

This qualification provides skills that can be applied to the design and control of production systems within an organisation, including:

- planning and scheduling
- tracking and analysing and
- directing and operating.

Trade Measurement

The 14 trade measurement units of competency (listed below) reflect current National Measurement Institute policies, regulations, procedures and work practices governing the activities of Trade Measurement Inspectors and Verifiers. They are available for use in specialist Trade Measurement Skill Sets below and are delivered by the National Measurement Institute.

MSMSS00007 Trade Measurement Inspection

MSMSS00008 Trade Measurement Verification (Complex Measuring Instrument)

MSMSS00009 Trade Measurement Verification (Limited Weighing Instrument)

MSMSS00010 Trade Measurement Verification (Liquid Measuring Instrument Using Volume Measures)

MSMSS00011 Trade Measurement Verification (Simple Measuring Instrument)

MSMSS00012 Trade Measurement Verification (Simple Measure)

Trade measurement refers to all transactions in which the price of the commodities or goods is based on measurement of quantity or quality. The primary purpose of a trade measurement system in Australia is to ensure that the pricing of traded goods is based on accurate measurement. Trade measurement covers both business-to-business transactions and business-to-consumer transactions. The units of competency listed below support the National Measurement Institute policies, regulations, procedures and work practices governing the activities of Trade Measurement Inspectors and Verifiers.

MSMTMINS301 Inspect a range of simple measures

MSMTMINS302 Inspect a range of simple measuring instruments

MSMTMINS401 Inspect a range of weighing instruments

MSMTMINS402 Inspect liquid measuring instruments using volume measures

MSMTMINS403 Inspect a range of trading practices

MSMTMINS404 Inspect a range of pre-packaged products

MSMTMINS501 Inspect a range of complex measuring instruments

MSMTMREF301 Use and maintain reference standards

MSMTMVER301 Verify simple measures

MSMTMVER302 Verify simple measuring instruments

MSMTMVER401 Verify weighing instruments

MSMTMVER402 Verify liquid measuring instruments using volume measures

MSMTMVER403 Verify inspector's class reference standards

MSMTMVER501 Verify complex measuring instruments

Recreational Vehicles

MSM21015 Certificate II in Recreational Vehicle Service and Repair
MSM21115 Certificate II in Recreational Vehicle Manufacturing
MSM31015 Certificate III in Recreational Vehicle Service and Repair
MSM31115 Certificate III in Recreational Vehicle Manufacturing
MSM31215 Certificate III in Recreational Vehicle and Accessories Retailing
MSM41015 Certificate IV in Recreational Vehicles
MSM41115 Certificate IV in Recreational Vehicle and Accessories Retailing

MSM51015 Diploma of Recreational Vehicles

MSM50316 Diploma of Production Management

These 8 qualifications cover the qualifications required by the recreational vehicle manufacture,

The recreational vehicle sector typically manufactures, repairs, services and retails recreational vehicles and accessories. Recreational vehicles include:

motor homes

sales and service industry.

- caravans
- camper trailers
- slide-ons, and
- fifth wheelers.

Recreational vehicles may be made from a frame (timber, aluminium or steel) and skin (aluminium or fibre composite) or a manufactured wall panel or some other technology. They are typically mounted on a steel chassis. Fittings are typically timber/particle board but may be any other suitable material.

The scope of recreational vehicle 'manufacturing' occupations covers a broad spectrum. The skills profile of the manufacturing industry covers production workers, tradespeople, technicians and associate professionals as well as professionals. These are applied in the range of manufacturing from simply transformed to elaborately transformed materials.

The recreational vehicle sector supports increased access to training and resources and wants a sufficient broad base of skills to be maintained to allow for both flexibility in workforce deployment and also for portability of skills across the sector.

The recreational vehicle sector is growing and has wide regional coverage. It is highly concentrated in terms of manufacturing, but with a broad range of smaller manufacturers. Service and repair (and sales) tends to be many small and medium businesses, often with a formal relationship with a manufacturer.

High Risk Boiler Licence

Operating a boiler is high risk work which requires a licence. This requires one of the following recognised Skills Sets:

MSMSS00001 Licence to operate a standard boiler MSMSS00002 Licence to operate an advanced boiler

The following high risk licensing units have been developed for use in Skill Sets and importation to

relevant qualifications to meet the needs of boiler operators.

MSMBLIC001 Licence to operate a standard boiler MSMBLIC002 Licence to operate an advanced boiler

High Pressure Water jetting

This is not a traditional manufacturing sector, however it provides a valuable industrial service to the process manufacturing sector and is bound by many of the same requirements. Necessary training should occur in the operation of this high risk and hazardous equipment. The MSMWJ units of competency have been developed to meet the requirements for operators of high pressure water jetting equipment.

MSMWJ201 Use high pressure water jetting equipment MSMWJ301 Operate a high pressure water jetting system MSMWJ302 Operate a drain cleaning draining system MSMWJ303 Operate a vacuum loading system

Two Skill Sets are also available:

MSMSS00003 Use high pressure water jetting equipment MSMSS00004 Operate a high pressure water jetting system.

Regulation and licensing requirements

While no specific licensing or certification requirements apply to the qualifications in this Training Package at the time of publication, manufacturing is governed by relevant legislation, regulations and/or external accreditation requirements. Local requirements should be checked, for example Worksafe Australia has a *Guide for managing risks from high pressure water jetting* https://www.safeworkaustralia.gov.au/doc/guide-managing-risks-high-pressure-water-jetting.

The National Measurement Institute is the regulator of the National Measurement Act and is the only RTO with scope to deliver the MSMTM units of competency.

The MSM Manufacturing Training Package also includes specialist high risk licensing units for boiler operations.

Implementation information

This implementation information is provided to assist RTOs to develop their learning and assessment strategies to meet industry and student needs. It includes information on:

- choosing the appropriate qualification, skill set or unit of competency
- choosing electives as required
- supporting students
- delivering the training
- assessing students.

RTOs will need to implement a comprehensive training and assessment strategy for each program that they deliver.

Choosing the appropriate qualification

Where do you start? What qualification and competencies are suitable for this industry sector and this student?

This section will assist Training Package users to develop their training and assessment strategies, customise the program to meet industry sector and student needs, identify the most suitable qualification for each student and apply the volume of learning to comply with the Australian Qualifications Framework (AQF).

Career pathways

This section provides information about:

- career pathways into and out of each qualification. (There are no entry requirements for any of the MSM qualifications.)
- qualifications, occupational outcomes and the AQF.

The following table presents suggested pathways into and out of the MSM qualifications:

Note: there are three recreational vehicle pathways:

- 1. Recreational vehicle service and repair from Certificate II up to Diploma
- 2. Recreational vehicle manufacture from Certificate II up to Diploma
- 3. Recreational vehicle and accessories retailing from Certificate III up to Diploma.

Qualification	Pathway in	Pathway out
Pathways and VET in Schools		
MSM10216 Certificate I in	NA	MSM20116 Certificate II in
Manufacturing (Pathways)		Process Manufacturing
MSM20216 Certificate II in	NA	MSA30208 Certificate III in
Manufacturing Technology		Manufacturing Technology *
Process Manufacturing		
MSM10116 Certificate I in Process	NA	MSM20116 Certificate II in
Manufacturing		Process
		Manufacturing
MSM20116 Certificate II in Process	MSM10216 Certificate I in	MSM30116 Certificate III in
Manufacturing	Manufacturing (Pathways)	Process
		Manufacturing
MSM30116 Certificate III in Process	MSM20116 Certificate II in	MSM40116 Certificate IV in
Manufacturing	Process Manufacturing	Process
		Manufacturing
MSM40116 Certificate IV in Process	MSM30116 Certificate III in	MSM50316 Diploma of Production
Manufacturing	Process Manufacturing	Management or
		MSS50312 Diploma of Competitive
		Systems and Practices
Surface Coating and Preparation		
MSM30216 Certificate III in Surface	NA	NA
Preparation and Coating Application		
Manufactured Mineral Products		
MSM30318 Certificate III in	NA	MSM40116 Certificate IV in
Manufactured Mineral Products		Process Manufacturing
		MSS40316 Certificate IV in
		Competitive Systems and

		Practices or
		BSB42015 Certificate IV in
		Leadership and Management
Production Management	NACNA 4044 C. C. 1:5: 1. 11/:	T
MSM50316 Diploma of Production	MSM40116 Certificate IV in	A degree program
Management	Process Manufacturing	
Recreational Vehicles	T	AACAADAOAF C. US. A. III.' B
MSM21015 Certificate II in	NA	MSM31015 Certificate III in Recreational
Recreational Vehicle Service and		Vehicle Service and Repair
Repair		
MSM21115 Certificate II in	NA	MSM31115 Certificate III in Recreational
Recreational Vehicle Manufacturing		Vehicle Manufacture
MSM31015 Certificate III in	MSM21015 Certificate II in	MSM41015 Certificate IV in Recreational
Recreational Vehicle Service and	Recreational Vehicle Service	Vehicles.
Repair	and Repair	
MSM31115 Certificate III in	MSM21115 Certificate II in	MSM41015 Certificate IV in Recreational
Recreational Vehicle Manufacturing	Recreational Vehicle	Vehicles
0	Manufacture	
MSM31215 Certificate III in	MSM21015 Certificate II in	MSM41015 Certificate IV in Recreational
Recreational Vehicle and Accessories	Recreational Vehicle Service	Vehicles
Retailing	and Repair or	
5	MSM21115 Certificate II in	
	Recreational Vehicle	
	Manufacture	
MSM41015 Certificate IV in	MSM31015 Certificate III in	MSM51015 Diploma of Recreational
Recreational Vehicles	Recreational Vehicle Service	Vehicles
	and Repair or MSM31115	
	Certificate III in Recreational	
	Vehicle Manufacture	
MSM41115 Certificate IV in	MSM31215 Certificate III in	MSM51015 Diploma of Recreational
Recreational Vehicle and Accessories	Recreational Vehicle and	Vehicles
Retailing	Accessories Retailing	
MSM51015 Diploma of Recreational	Credit may be granted towards	A degree program
Vehicles	this qualification for those units	l sand to be agreement
	which may be in common with	
	the MSM41015 Certificate IV in	
	Recreational Vehicles or the	
	MSM41115 Certificate IV in	
	Recreational Vehicle and	
	Accessories Retailing, however,	
	the Diploma is essentially a	
	stand-alone qualification	

Qualifications, occupational outcomes and the AQF

RTOs must meet the requirements of the AQF and ensure that individual students are enrolled in appropriate qualifications. This section provides the AQF qualification descriptor and the MSM qualification description. This will assist RTOs to determine the most suitable qualification level for each student.

The AQF qualification descriptors include the volume of learning. RTOs must comply with the AQF, apply the volume of learning to training programs, and develop and implement training and assessment strategies that are consistent with the AQF.

The AQF provides the volume of learning allocated to a qualification. This includes all teaching, learning and assessment activities that are required to be undertaken by a typical student to

achieve the learning outcomes. These activities include guided learning (classes, lectures, tutorials, online or self-paced study), individual study, research, practice, learning activities in the workplace and assessment activities.

The amount of training provided by an RTO is part of the overall volume of learning and relates primarily to formal training and learning activities (including classes and other activities, as well as workplace learning).

RTOs must take into account the need to allow students to reflect on and absorb knowledge, to practise the skills in different contexts, and to learn to apply the skills and knowledge in the varied environments of workplaces before being assessed.

The following sections give the relevant AQF descriptor, including the volume of learning that is required, and the description of each MSM qualification.

Certificate I AQF descriptor

Purpose

The Certificate I qualifies individuals with basic functional knowledge and skills to undertake work, further learning and community involvement.

Knowledge

Graduates of a Certificate I will have basic, fundamental knowledge and understanding in a narrow area of work and learning.

Skills

Graduates of a Certificate I will have:

- basic skills to participate in everyday life and further learning
- cognitive and communication skills to receive, pass on and recall information in a narrow range of areas
- technical skills involving the use of tools appropriate to the activity and use of basic communication technologies

Application

Graduates of a Certificate I will demonstrate the application of knowledge and skills:

- with some autonomy in defined contexts and within established parameters
- in contexts that may include preparation for further learning, life activities and/or a variety of initial routine and predictable work-related activities including participation in a team or work group.

Volume of learning

The volume of learning Certificate II is typically 0.5 – 1 year. This equates to 600-1200 hours.

Certificate I qualification descriptions

MSM10116 Certificate I in Process Manufacturing

The MSM10116 Certificate I in Process Manufacturing provides the competencies required for entry to the industry and addresses job outcomes at this level. It has been developed as a common certificate for use across the three process manufacturing sectors:

- chemical, hydrocarbons and refining
- plastics, rubber and cablemaking
- manufactured mineral products.

MSM10216 Certificate I in Manufacturing (Pathways)

The MSM10216 Certificate I in Manufacturing (Pathways) is designed to develop skills that are

essential for employment and skills that relate directly to a work activity as specified in a selected industry/technical unit.

The units selected must provide practical skills that are relevant and useful to the area in which the person hopes to gain employment or is currently working. The group of units should be chosen to support the project and should incorporate both the technical and employability skills needed for work.

Achievement of the MSM10216 Certificate I in Manufacturing (Pathways) will provide the student with a set of competencies that collectively open up pathways into employment and/or further study in the manufacturing industry.

Certificate II AQF descriptor

Purpose

The Certificate II qualifies individuals to undertake mainly routine work and as a pathway to further learning.

Knowledge

Graduates of a Certificate II will have basic factual, technical and procedural knowledge in a defined area of work and learning.

Skills

Graduates of a Certificate II will have:

- cognitive skills to access, record and act on a defined range of information from a range of sources
- cognitive and communication skills to apply and communicate known solutions to a limited range of predictable problems
- technical skills to use a limited range of equipment to complete tasks involving known routines and procedures with a limited range of options.

Application

Graduates of a Certificate II will demonstrate the application of knowledge and skills with some accountability for the quality of own outcomes and some responsibility for own outputs in work and learning. Work involves limited autonomy and judgement in the completion of own defined and routine tasks in known and stable contexts and in collaboration with others in a team environment. **Volume of learning**

The volume of learning of a Certificate II is typically 0.5-1 year. This equates to 600-1200 hours.

Certificate II qualifications descriptions

MSM20116 Certificate II in Process Manufacturing

The MSM20116 Certificate II in Process Manufacturing provides the competencies required by competent production workers who undertake vital production support roles directly related to producing products.

Production workers apply a breadth and depth of knowledge to a defined range of situations and would be expected to apply this knowledge to solve a defined range of problems by applying known solutions to a limited range of predictable problems.

This qualification has been developed for use across the three process manufacturing sectors:

- chemical, hydrocarbons and refining
- plastics, rubber and cablemaking
- manufactured mineral products.

MSM20216 Certificate II in Manufacturing Technology

The Certificate II in Manufacturing Technology applies to a learning and assessment environment where access to normal production operations is not available. A typical environment will be for application in a VET in Schools delivery environment or other simulated or trial manufacturing environment where a high degree of supervision exists. The units are suitable for delivery in a school environment and for schools to contextualise the units to local manufacturing industry activities.

MSM21015 Certificate II in Recreational Vehicle Service and Repair

The MSM21015 Certificate II in Recreational Vehicle Service and Repair has been developed as an entry-level qualification. People with this qualification are expected to work under supervision servicing and repairing recreational vehicles to meet Australian requirements, such as road worthiness and the Australian Design Rule (ADR). Recreation vehicles include:

- motor homes
- caravans
- camper trailers
- slide-ons
- fifth wheelers.

The work may be in a service and repair facility or in a manufacturer's factory and apply to the recreational vehicle body, fittings and running gear. Work may be undertaking warranty work, for an insurance claim, modifying an existing recreational vehicle or undertaking routine servicing.

People with this qualification may be expected to:

- carry out insurance repair
- carry out other repairs
- carry out work under warranty
- undertake modifications/refits to the recreational vehicle
- undertake routine servicing
- prepare a recreational vehicle for sale/resale.

Workers may also specify and access outside specialist services, for example, for spray painting or licensing requirements.

There are no specific licenses that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements depending on the work context. Local regulations should be checked for details.

MSM21115 Certificate II in Recreational Vehicle Manufacture

The MSM21115 Certificate II in Recreational Vehicle Manufacture has been developed as an entry-level qualification. People with this qualification would be expected to work under supervision manufacturing recreational vehicles to meet Australian requirements, such as road worthiness and the Australian Design Rule (ADR). Recreation vehicles include:

- motor homes
- caravans
- camper trailers
- slide-ons
- fifth wheelers.

This work will generally be undertaken in a large manufacturing organisation or smaller workshop environment.

Work typically includes manufacturing recreational vehicles, including special/custom orders as well as standard manufacturer models.

People with this qualification may be expected to:

- carry out the various stages in recreational vehicle manufacture
- undertake modifications/refits to a recreational vehicle
- prepare a recreational vehicle for sale.

They may also specify and access outside specialist services, for example, for spray painting or licensing requirements.

There are no specific licenses that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements depending on the work context. Local regulations should be checked for details.

Certificate III AQF descriptor

Purpose

The Certificate III qualifies individuals who apply a broad range of knowledge and skills in varied contexts to undertake skilled work and as a pathway for further learning.

Knowledge

Graduates of a Certificate III will have factual, technical, procedural and theoretical knowledge in an area of work and learning.

Skills

Graduates of a Certificate III will have:

- cognitive, technical and communication skills to interpret and act on available information
- cognitive and communication skills to apply and communicate known solutions to a variety of predictable problems and to deal with unforseen contingencies using known solutions
- technical and communication skills to provide technical information to a variety of specialist and non-specialist audiences
- technical skills to undertake routine and some non-routine tasks in a range of skilled operations.

Application

Graduates of a Certificate III will:

- demonstrate the application of knowledge and skills with discretion and judgement in the selection of equipment, services or contingency measures, and skills to adapt and transfer skills and knowledge within known routines, methods, procedures and time constraints.
- work is in the context of taking responsibility for own outputs in work and learning, including participation in teams and taking limited responsibility for the output of others within established parameters.

Volume of learning

The volume of learning of a Certificate III is typically 1-2 years which equates to 1200-2400 hours.

Certificate III qualifications descriptions

MSM30116 Certificate III in Process Manufacturing

The MSM30116 Certificate III in Process Manufacturing provides the competencies required by advanced production workers who use a range of equipment and provide support functions directly related to producing products. They would undertake more advanced roles than workers with a Certificate II, working in accordance with the operating procedures and applying knowledge to anticipate problems and solve a range of foreseen and unforeseen problems.

This qualification is designed for use across the three process manufacturing sectors:

- chemical, hydrocarbons and oil refining
- plastics, rubber and cablemaking
- manufactured mineral products.

It includes the same range of electives, but with different packaging rules to provide a qualification for workers unable to meet the technical requirements of PMA, PMB or PMC. This qualification covers:

- production support workers people working in manufacturing and filling the vital production support roles but who may not have the opportunity to develop competency in sufficient technical units related directly to producing products
- employees who operate across more than one category within process manufacturing or 'specialised processes' and elsewhere when required.

MSM30216 Certificate III in Surface Preparation and Coating Application

The MSM30216 Certificate III in Surface Preparation and Coating Application provides the tradelevel competencies required to perform the wide range of surface preparation and protective coating application operations that occur across a range of heavy industry, ships and infrastructure.

The surfaces being prepared are typically metal (usually ferrous) and may be structural or have other mechanical requirements. The protective coatings may be liquid or solid. The applied coating may or may not be the final coat and its purpose is protective, not decorative.

People with this qualification would be expected to work under routine supervision only, preparing surfaces and/or applying protective coatings in accordance with a provided technical specification. They would be expected to recognise situations where the intended approach was not appropriate/not working and take appropriate action to ensure the final result is satisfactory.

People with this qualification may be expected to undertake some combination of:

- abrasively blast clean surfaces to Australian Standard requirements and in accordance with the specification
- prepare surfaces for coating as required by the specification
- apply liquid protective surface coatings
- apply solid polymer surface coatings (this is usually a specialised area).

They may work in a manufacturer's factory or they may work as contractors on the site of the plant/ship/infrastructure.

This work may be undertaken:

- in a factory environment
- in an onsite, outdoors environment
- inside a vessel or other confined space

- outside a vessel or structure
- at heights
- some combination of these.

MSM30318 Certificate III in Manufactured Mineral Products

MSM30318 Certificate III in Manufactured Mineral Products reflects the role of operators who perform a range of operations to directly produce manufactured mineral products for industry, including cement, pre-cast concrete, pre-mixed concrete, quarry and asphalt.

The operator will be able to work independently and to apply theoretical and technical knowledge and well-developed skills to undertake operations and exercise judgement in areas such as start-up and shutdown procedures and quality assurance.

The operator will be able to apply product and process knowledge to anticipate and solve a range of routine and non-routine problems. This includes developing solutions to problems which do not have a known solution or do not have a solution recorded in the procedures.

MSM31015 Certificate III in Recreational Vehicle Service and Repair

The MSM31015 Certificate III in Recreational Vehicle Service and Repair has been developed as a trade-level qualification. People with this qualification would be expected to work under supervision servicing and repairing recreational vehicles to meet Australian requirements, such as road worthiness and the Australian Design Rule (ADR). Recreation vehicles include:

- motor homes
- caravans
- camper trailers
- slide-ons
- fifth wheelers.

The work is done in a service and repair facility or a manufacturer's factory undertaking warranty work. Work may be for an insurance claim, warranty claim, modifying an existing recreational vehicle or undertaking routine servicing.

Workers typically service and repair any recreational vehicle as required. This may apply to the recreational vehicle body, fittings and running gear. Work may be in response to a road (or other) accident, hail damage, vehicle modification or routine servicing.

People with this qualification may be expected to:

- carry out insurance repairs
- carry out other repairs
- carry out work under warranty
- undertake modifications/refits to the recreational vehicle
- undertake routine servicing
- prepare a recreational vehicle for sale/resale.

They may also specify and access outside specialist services, for example, for spray painting or licensing requirements.

There are no specific licenses that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements depending on the work context. Local regulations should be checked for details.

MSM31115 Certificate III in Recreational Vehicle Manufacture

The MSM31115 Certificate III in Recreational Vehicle Manufacture has been developed as a trade-level qualification. People with this qualification would be expected to work under supervision manufacturing recreational vehicles to meet Australian requirements, such as road worthiness and the Australian Design Rule (ADR). Recreation vehicles include:

- motor homes
- caravans
- camper trailers
- slide-ons
- fifth wheelers.

This work will generally be undertaken in a factory, large manufacturing organisation or in a smaller workshop environment.

Workers typically manufacture recreational vehicles as required. This may include special/custom orders or standard manufacturer models.

People with this qualification may be expected to:

- carry out the various stages in recreational vehicle manufacture
- undertake modifications/refits to a recreational vehicle
- prepare a recreational vehicle for sale.

They may also specify and access outside specialist services, for example, for spray painting or licensing requirements.

There are no specific licenses that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements depending on the work context. Local regulations should be checked for details.

MSM31215 Certificate III in Recreational Vehicle and Accessories Retailing

The MSM31215 Certificate III in Recreational Vehicle and Accessories Retailing has been developed as a trade-level qualification. This qualification has been developed in response to an industry request. People with this qualification would be expected to work under supervision in the sale of recreational vehicles and accessories, including:

- motor homes
- caravans
- camper trailers
- slide-ons
- fifth wheelers.

This sales work is carried out in a workshop or showroom environment. Sales may be for a new recreational vehicle, a second-hand/refurbished recreational vehicle or spare parts and accessories. Workers will analyse the customer's requirements and then carry them out. In some cases selling of the recreational vehicle may include identifying possible modifications which could be made to the recreational vehicle.

Recreational vehicle sales require specialised knowledge not only of the available range of recreational vehicle models and accessories but of the legal requirements associated with weight, towing and vehicle capacity.

People with this qualification may be expected to:

• sell a new or second-hand recreational vehicle

- suggest modifications/refits to a recreational vehicle
- prepare a recreational vehicle for sale/resale
- sell spare parts and accessories.

There are no specific licenses that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements depending on the work context. Local regulations should be checked for details.

Certificate IV AQF descriptor

Purpose

The Certificate IV qualifies individuals who apply a broad range of specialised knowledge and skills in varied contexts to undertake skilled work and as a pathway for further learning.

Knowledge

Graduates of a Certificate IV will have broad factual, technical and theoretical knowledge in a specialised field of work and learning.

Skills

Graduates of a Certificate IV will have:

- cognitive skills to identify, analyse, compare and act on information from a range of sources
- cognitive, technical and communication skills to apply and communicate technical solutions
 of a non-routine or contingency nature to a defined range of predictable and unpredictable
 problems
- specialist technical skills to complete routine and non-routine tasks and functions
- communication skills to guide activities and provide technical advice in the area of work and learning.

Application

Graduates of a Certificate IV will demonstrate the application of knowledge and skills to specialised tasks or functions in known or changing contexts with responsibility for own functions and outputs and may have limited responsibility for organisation and quantity and quality of the output of others within limited parameters.

Volume of learning

The volume of learning of a Certificate IV is typically 0.5-2 years. This equates to 600-2400 hours.

Certificate IV qualifications descriptions

MSM40116 Certificate IV in Process Manufacturing

The MSM40116 Certificate IV in Process Manufacturing provides the competencies required by advanced production workers who use a range of equipment and are involved in solving complex problems that require theoretical knowledge, combined with an understanding of operating procedures directly related to producing products.

This qualification is typically used to develop employees performing a technical role that includes the ability to work independently and conduct technical problem solving according to the needs of the work required to produce products.

This qualification is designed to develop employees who operate across more than one category within process manufacturing or other product conversion processes in manufacturing. Typical applications would be in chemical, hydrocarbons, refining, minerals processing, plastics, rubber, cablemaking, manufactured mineral products, and other areas as appropriate.

Non-technical team leaders, coordinators and supervisors may be better served by a qualification in competitive manufacturing. Qualification pathways from this qualification include MSM50316 Diploma of Production Management and MSS50312 Diploma of Competitive Systems and Practices.

MSM41015 Certificate IV in Recreational Vehicles

The MSM41015 Certificate IV in Recreational Vehicles has been developed as a post-trade level qualification. This qualification has been developed in response to an industry request. People with this qualification would be expected to lead work teams and provide supervision of people undertaking the manufacture, service or repair of recreational vehicles to meet Australian requirements, such as road worthiness and the Australian Design Rule (ADR). Recreation vehicles include:

- motor homes
- caravans
- camper trailers
- slide-ons
- fifth wheelers.

They will provide technical leadership as well as undertake some tasks themselves.

The work is done in a service and repair facility or a manufacturer's factory. Work may include building a new recreational vehicle, repairs for an insurance claim or other repairs, modifying an existing recreational vehicle or undertaking routine servicing.

Workers typically manufacture, service and repair recreational vehicles as required. This may apply to the recreational vehicle body, fittings and running gear. Repairs may be in response to a road (or other) accident, hail damage, vehicle modification or routine servicing.

People with this qualification may be expected to lead and also undertake one or more of:

- manufacture of a recreational vehicle
- insurance repairs
- other repairs
- work under warranty
- modifications/refits to the recreational vehicle
- routine servicing
- preparation of a recreational vehicle for sale/resale.

They may also specify and access outside specialist services, for example, for spray painting or licensing requirements.

There are no specific licenses that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements depending on the work context. Local regulations should be checked for details.

MSM41115 Certificate IV in Recreational Vehicle and Accessories Retailing

The MSM41115 Certificate IV in Recreational Vehicle and Accessories Retailing has been developed as a post-trade level qualification. This qualification has been developed in response to an industry request. People with this qualification would be expected to lead sales teams and provide supervision of people in the sale of recreational vehicles and accessories, including:

- motor homes
- caravans
- camper trailers

- slide-ons
- fifth wheelers.

The sales work is done in a workshop or showroom environment. Sales may be for a new recreational vehicle, a second-hand/refurbished recreational vehicle or spare parts and accessories. In some cases, selling of the recreational vehicle may also include possible modifications to the recreational vehicle.

Recreational vehicle sales require specialised knowledge not only of the available range of recreational vehicle models and accessories but of the legal requirements associated with weight, towing and vehicle capacity.

People with this qualification may be expected to:

- sell a new or second-hand recreational vehicle
- suggest modifications/refits to a recreational vehicle
- prepare a recreational vehicle for sale/resale
- sell spare parts and accessories
- manage a sales area/showroom.

They will provide technical leadership as well as undertake some tasks themselves.

There are no specific licenses that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements depending on the work context. Local regulations should be checked for details.

Diploma AQF qualification descriptor

Purpose

The Diploma qualifies individuals who apply integrated technical and theoretical concepts in a broad range of contexts to undertake advanced skilled or paraprofessional work and as a pathway for further learning.

Knowledge

Graduates of a Diploma will have technical and theoretical knowledge and concepts, with depth in some areas within a field of work and learning.

Skills

Graduates of a Diploma will have:

- cognitive and communication skills to identify, analyse, synthesise and act on information from a range of sources
- cognitive, technical and communication skills to analyse, plan, design and evaluate approaches to unpredictable problems and/or management requirements
- specialist technical and creative skills to express ideas and perspectives
- communication skills to transfer knowledge and specialised skills to others and demonstrate understanding of knowledge.

Application

Graduates of a Diploma will demonstrate the application of knowledge with depth in some areas of specialisation, in known or changing contexts and skills to transfer and apply theoretical concepts and/or technical and/or creative skills in a range of situations with personal responsibility and autonomy in performing complex technical operations and for quantity and quality. Work involves initiative and judgement to organise the work of self and others and plan, coordinate and evaluate the work of teams within broad but generally well-defined parameters.

Volume of learning

The volume of learning for a Diploma is typically 1-2 years which equates to 1200-2400 hours.

Diploma qualification descriptions

MSM50316 Diploma of Production Management

The MSM50316 Diploma of Production Management provides the skills and knowledge required to plan, direct and coordinate production activities in a manufacturing environment. The qualification has been developed with the process manufacturing sector as a focus. It may also be applied in other organisations in the value chain.

The qualification has been developed on an assumption that competency will be developed through a combination of on and off-the-job learning strategies.

The MSM50315 Diploma of Production Management specifies the competencies required for employment in job roles related to assisting organisations to improve production. Employment outcomes related to this qualification may include roles such as a production or operations manager.

This qualification provides skills that can be applied to the design and control of production systems within an organisation, including:

- · planning and scheduling
- tracking and analysing
- directing and operating.

This qualification provides the skills needed to assist organisations to improve production where competitive systems and practices (lean) processes are not fully employed. It therefore complements but does not duplicate qualifications supplying skills related to competitive systems and practices. Where these skills are required the MSS50312 Diploma of Competitive Systems and Practices should be considered.

This qualification can be accessed by direct entry. However, entrants for the qualification should already possess operational or technical skills related to the organisation seeking production improvements, either through prior relevant experience or qualifications. For this reason, the qualification is not suitable as an entry-level qualification for school leavers.

MSM51015 Diploma of Recreational Vehicles

The MSM51015 Diploma of Recreational Vehicles has been developed to reflect the role of senior technicians and managers in a recreational vehicle manufacturing, repair service or retailing organisation. This qualification has been developed in response to an industry request. People with this qualification would be expected to undertake technical projects and/or manage departments or entire organisations undertaking the manufacture, service repair or retailing of recreational vehicles, accessories or spares including:

- motor homes
- caravans
- camper trailers
- slide-ons
- fifth wheelers.

Workers typically manage the manufacture, service and repair or retailing recreational vehicles as required in a workshop, factory or showroom facility. The organisation may build new recreational vehicles, repair recreational vehicles for insurance claims, modify existing recreational vehicles or undertake routine servicing or retail new/second-hand recreational vehicles, their accessories and spares.

They may also undertake initial design or design modifications of a recreational vehicle.

This may apply to the recreational vehicles body, fittings and running gear. Repairs may be in response to a road (or other) accident, hail damage, vehicle modification or routine servicing.

People with this qualification may be expected to manage the work. They may also specify and access outside specialist services, for example, for spray painting or licensing requirements. There are no specific licenses that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements depending on the work context. Local regulations should be checked for details.

Choosing electives

The elective units of competency listed within recreational vehicle qualifications provide for skill development in all the industry sectors identified by industry representatives during consultations. All qualifications can be customised since particular combinations of elective units can be selected to suit individual student needs and the industry sector.

The manufacturing technology units coded MSMPCII were specifically developed for the Certificate II in Manufacturing Technology. They are designed for use only in a Pathways qualification or Skill Set. They should not be used in other qualifications as replacements for units that have direct job outcomes.

Importing elective units

Units of competency may be imported from another endorsed Training Package to customise a qualification. These imported units may be used to replace the maximum number of imported units that are identified in the packaging rules. The use of imported units of competency is allowed if:

- they are from an endorsed Training Package or other accredited course and are packaged at the same AQF certificate level (the original unit title and code number must be retained)
- they are appropriate to the needs of the organisation
- any prerequisites specified in the original unit and any specific assessment requirements in the host Training Package are also observed.

Exporting units to other Training Packages

Manufacturing Skills Australia encourages other industries to access the units of competency in this Training Package which might be appropriate to their needs. These competencies may be used provided:

- the original unit code and title are retained
- they are only contextualised to the extent permitted below
- any specified prerequisites and any specific assessment requirements in the host Training Package are observed

Contextualising units of competency

Units of competency may, and in some cases should, be contextualised to the sub-sector and type of work environment involved. Contextualisation is allowed and encouraged provided the contextualised unit is of similar level and rigour to the original unit of competency. Examples include contextualisation which:

• replaces general directions with organisation specific needs

- replaces generic equipment/process names with organisation specific names
- replaces general processes/specifications with organisation specific needs.

Contextualisation of the elements or performance criteria is not permitted. As a minimum, the contextualised unit should:

- be of similar level and rigour
- be of a similar breadth, complexity and size
- be relevant to the industry sector and the organisation
- not reduce the health, safety or environmental requirements
- retain the original unit code and title.

Health and safety

The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used.

Applicable legislation, regulations, standards and codes of practice include the following:

- work health and safety (WHS) legislation, codes of practice and guidance material
- Australian Design Rules (ADR)
- environmental regulations and guidelines
- other relevant government legislation, regulations and codes
- Australian and other standards
- other relevant codes and standards
- licence and certification requirements.

The regulatory framework will be reflected in workplace policies and procedures and is not required to be independently assessed.

All operations must comply with WHS and environmental management requirements, which may be imposed through state/territory or federal legislation - these requirements must not be compromised at any time.

Individual units of competency give details on the relevant WHS requirements.

Risk management and industry requirements for refresher training and/or reassessment

Certain units of competency in this Training Package are associated with elevated levels of risk, which is either inherent in the performance of the competency, or the competency is critical in managing the risk of an activity. Further to this, some of these units are not routinely practiced and so, to maintain competency regular retraining is required, followed by reassessment as evidence that competency has been achieved/retained.

The units below either require reassessment to comply with the relevant Australian Standard, or reassessment is required by industry. The retraining/reassessment period specified below conforms with that required by the noted Standard, or meets industry specified good practice requirements.

MSMPER205 Enter confined space

AS2865-2009 Confined spaces requires 'persons ... be reassessed at appropriate intervals'. Industry regards reassessment on a two year cycle as good practice.

MSMWHS210 Undertake first response to non-fire incidents

Industry regards retraining and reassessment on a two year cycle as good practice.

MSMWHS212 Undertake first response to fire incidents

Industry regards retraining and reassessment on a two year cycle as good practice.

MSMWHS216 Operate breathing apparatus

AS/NZS 1715:2009 Selection, use and maintenance of respiratory protective equipment stipulates the frequency of retraining and reassessment 'as a minimum shall be considered at least annually'

MSMWHS217 Gas test atmospheres

Industry regards reassessment on a two to three year cycle as good practice.

Access and equity and reasonable adjustments

A student's access to the training and assessment process should not be adversely affected by restrictions placed on the location or context of assessment beyond the requirements specified in this Training Package. Training and assessment must be bias-free.

Under the Disability Standards for Education 2005, RTOs must make reasonable adjustments for people with disability to the maximum extent that those adjustments do not cause that provider unjustifiable hardship. While 'reasonable adjustment' and 'unjustifiable hardship' are different concepts and involve different considerations, they both seek to strike a balance between the interests of education providers and the interests of students with and without disability. The Disability Standards and guidelines for their implementation can be downloaded at http://www.comlaw.gov.au/Details/F2005L00767.

An adjustment is any measure or action that a student requires because of their disability, and which has the effect of assisting them to access and participate in education and training on the same basis as those without a disability. An adjustment is reasonable if it achieves this purpose while taking into account factors such as the nature of the student's disability, their views, the potential effect of the adjustment on the student and others who might be affected, and the costs and benefits of making the adjustment.

When assessing whether an adjustment is reasonable, a training provider is required to maintain the academic requirements of a unit of competency that are inherent or essential to its outcome. There may be more than one adjustment that is reasonable in a given set of circumstances; education providers are required to make adjustments that are reasonable and that do not cause them unjustifiable hardship.

Adjustments must not diminish the rigour of the unit of competency being assessed.

Foundation skills

Foundation Skills are those core or essential skills we need to engage successfully in work and life. The term 'Foundation Skills' is currently used to include the core skills defined in the Australian Core Skills Framework (ACSF) as well as the Employment Skills identified as critical for effective performance in the workplace. The core skills of the ACSF include reading, writing, oral communication, numeracy and learning.

Foundation Skills are deemed essential to successful learning and continuing employment. In the MSM units of competency advice is provided that relevant foundation skills are explicit in the performance criteria. Below is a mapping of each MSM unit of competency against the Australian Core Skills Framework.

It is important to note that the ACSF mapping has not been validated and is available as a guide only. The mapping provides an indicative assessment that may assist RTOs to undertake exercises, such as a pre-assessment checks to make a decision about a learner's suitability for enrolment, and plan for what needs to be achieved by the end of the training program. An RTO must undertake its own assessment, and validate outcomes, to ensure consistent judgement of ACSF levels that should be achieved by the learner at the end of a vocational training program.

Mapping of MSM units to the Australian Core Skills Framework

Unit code	Unit title	Learning	Reading	Writing	Oral Communication	Numeracy
MSMENV172	Identify and minimise	-	1	1	1	1
NACNAENI) (272	environmental hazards	2	2	2	2	2
MSMENV272	Participate in environmentally	2	2	2	2	2
	sustainable work practices					
MSMENV472	Implement and monitor	4	4	3	3	3
IVISIVIEINV4/2	environmentally	4	4	3	3	3
	sustainable work practices					
NACNAENIV/C72		5	5	5	5	4
MSMENV672	Develop workplace policy and procedures for	5	5	5	5	4
	environmental					
NACNAODC400	sustainability	1	4		4	
MSMOPS100	Use equipment	1	1	-	1	-
MSMOPS101	Make measurements	1	1	1	2	2
MSMOPS102	Perform tasks to support	1	1	1	2	2
	production		_			
MSMOPS200	Operate equipment	2	1	2	2	2
MSMOPS200	Operate equipment	2	2	2	2	3
MSMOPS201	Cut polymer materials	1	1	2	2	2
MSMOPS202	Fabricate polymer	2	2	2	2	2
	products					
MSMOPS212	Use organisation	2	2	2	2	2
	computers or data					
	systems					
MSMOPS244	Layout and cut materials	1	3	2	2	2
MSMOPS301	Treat corrosion	3	3	3	3	3
MSMOPS363	Organise on site work	3	3	3	3	2
MSMOPS400	Optimise process/plant area	3	3	3	4	3
MSMOPS401	Trial new process or product	3	4	4	4	3
MSMOPS601	Design equipment and system modifications	4	4	4	5	4
MSMPER200	Work in accordance with	3	2	2	2	2
	an issued permit			_	_	
MSMPER201	Monitor and control work permits	2	2	2	2	2
MSMPER202	Observe permit work	2	2	2	2	2

MSMPER205	Enter confined space	2	3	2	3	2
MSMPER300	Issue work permits	3	3	3	3	3
MSMPER400	Coordinate permit	4	4	3	4	3
IVISIVII EIX400	process	-	-	3	7	
MSMPMC200	Organise self	2	2	2	2	2
Wishii Wezee	Produce structural	3	3	2	2	2
MSMPMC300	precast concrete			_	_	-
	Store materials	3	2	2	2	2
MSMPMC301	for production					_
	Operate	3	2	2	2	2
	equipment to					
	blend/mix					
MSMPMC302	materials					
	Operate grinding	3	2	2	2	2
MSMPMC303	equipment					
	Prepare for	3	2	2	2	2
MSMPMC304	production					
	Heat accelerate	3	2	2	2	2
	the curing of					
MSMPMC305	precast concrete					
	Operate crushing	3	2	2	2	2
MSMPMC306	equipment					
	Operate a	3	2	2	2	2
MSMPMC307	calcining kiln					
	Operate slip	3	2	2	2	2
MSMPMC308	casting equipment					
	Finish products	3	2	2	2	2
MSMPMC309	after firing					
	Hand mould	3	2	2	2	2
MSMPMC310	products			_		
145140146344	Operate a firing	3	2	2	2	2
MSMPMC311	kiln	1		2	2	2
	Operate glass finishing	3	2	2	2	2
MSMPMC312	equipment					
IVISIVIFIVICS12	Schedule, cut and	3	2	2	2	2-3
	bend	3	2	2	2	2-3
MSMPMC313	reinforcement					
ANDIAL MICOTO	Finish green	3	2	2	2	2
MSMPMC314	concrete products			_	_	
	Cast moulded	3	2	2	2	2
MSMPMC315	concrete products		_	_	_	_
	Finish cured	3	2	2	2	2
MSMPMC316	concrete products	1				
	Conduct benching	3	2	2	2	2-3
MSMPMC317	operations					
	Assemble, fabricate and	3	2	2	2	2
MSMPMC318	place reinforcement	<u> </u>				
	Finish casting	3	2	2	2	2
MSMPMC319	operation					
	Demould concrete	3	2	2	2	2
MSMPMC320	products					
	Batch mix	3	2	2	2	2
MSMPMC321	concrete					
	Deliver concrete	3	2	2	2	2
MSMPMC322	to site					<u> </u>

MSMPMC323	Prepare achialt	3	2	2	2	2
	Prepare asphalt			2		
MSMPMC324	Move materials	3	2		2	2
	Operate bulk	3	2	2	2	2
	materials handling					
MSMPMC325	equipment					
	Deliver customer	3	2	2	3	2
MSMPMC326	service					
	Allocate and	3	2	2	3	2
	complete team					
MSMPMC327	tasks					
	Prepare for and	3	2	2	2	2
	apply shotcrete					
MSMPMC328	for installation					
	Prepare moulds	3	2	2	2	2
MSMPMC329	and dies					
	Produce	3	3	2	2	2
	architectural					
MSMPMC330	precast concrete					
MSMPMC400	Carry out stock	4	2	2	2	2
IVISIVII IVIC400	control	7	_	-	_	_
	Set up and tune a	4	3	2	2	3
NASNADNACA04	· ·	+	٥			3
MSMPMC401	process	4	2	2	2	2
NACNADNACAGO	Process raw meal	4	3	2	2	3
MSMPMC402	into product					
	Set up and	4	3	2	2	3
	optimise glass					
MSMPMC403	forming process					
MSMRV310	Fit recreational vehicle	2	2	2	2	1
	floor					
MSMRV311	Fit furniture in a	2	2	2	2	1
	recreational vehicle					
MSMRV312	Fit water systems in a	2	2	2	2	1
	recreational vehicle	<u></u>		<u> </u>		
MSMRV313	Fit 12 V cable systems in a	2	2	2	2	1
	recreational vehicle					
MSMRV314	Construct and fit roof to a	2	2	2	2	1
	recreational vehicle					
MSMRV315	Construct and fit slide out	2	2	2	2	1
	in a recreational vehicle	_	_	_	_	_
MSMRV316	Fit appliances in a	2	2	2	2	1
INIDIAIIIADTO	recreational vehicle		_	_	_	1
MSMRV317	Install solar equipment on	2	2	2	2	1
I IVISIVIKV31/	I		2	2		1
NACNADY 24.0	a recreational vehicle	2	1	2	2	1
MSMRV318	Fit cladding to a	2	2	2	2	1
	recreational vehicle	_			_	
MSMRV319	Fit front and rear moulds	2	2	2	2	1
	to a recreational vehicle					
MSMRV320	Fit windows and doors to	2	2	2	2	1
	a recreational vehicle					
MSMRV321	Fit required external	2	2	2	2	1
	items to a recreational					
	vehicle					
MSMRV322	Fit required external	2	2	2	2	1
	electrical components to a					
	recreational vehicle					
MSMRV323	Fit required internal items	2	2	2	2	1
	cquii ca internaritems		ı -	ı -		<u> </u>

	to a recreational vehicle					
MSMRV324	Conduct final quality	2	2	2	2	1
IVISIVIKV324	1	2	2	2	2	1
	inspection for a					
MSMRV325	recreational vehicle Fabricate a chassis and	2	2	2	2	1
IVISIVIRV325		2	2	2	2	1
	suspension for a					
NACNADY/250	recreational vehicle	2	2			4
MSMRV350	Remove and replace a	2	2	2	2	1
NACNADY/254	recreational vehicle roof					4
MSMRV351	Remove and replace a	2	2	2	2	1
1461451/050	recreational vehicle floor					
MSMRV352	Remove and replace a	2	2	2	2	1
	recreational vehicle					
	sidewall cladding		_			
MSMRV353	Remove and replace a	2	2	2	2	1
	recreational vehicle					
	shower cubicle					
MSMRV354	Remove and replace a	2	2	2	2	1
	recreational vehicle					
	shower walls					
MSMRV355	Remove and replace a	2	2	2	2	1
	camper/pop-top roof		_		_	
MSMRV356	Remove and replace gas	2	2	2	2	1
	struts and roof lifting					
	equipment on a					
	recreational vehicle					
MSMRV357	Remove and replace	2	2	2	2	1
	external components of a					
	recreational vehicle					
MSMRV358	Modify the body of a	2	2	2	2	1
	recreational vehicle					
MSMRV359	Install additional	2	2	2	2	1
	appliances in a					
	recreational vehicle					
MSMRV360	Service camper wind up	2	2	2	2	1
	systems					
MSMRV361	Repair dry rot in a	2	2	2	2	1
	recreational vehicle					
MSMRV362	Install and repair battery	2	2	2	2	1
	systems in a recreational					
	vehicle					
MSMRV363	Complete pre-delivery	2	2	2	2	1
	check of a recreational					
	vehicle					
MSMRV364	Hand over a recreational	2	2	2	2	1
	vehicle to a customer					
MSMRV365	Remove and refit body	2	2	2	2	1
	moulding					
MSMRV366	Fit transfers and decals to	2	2	2	2	1
	a recreational vehicle	<u> </u>		<u> </u>		
MSMRVG201	Tow a recreational vehicle	2	2	2	2	2
	safely					
MSMRVS202	Repair/service LPG	2	2	2	2	2
	systems in a recreational					
	vehicle					
MSMRVS401	Assess and quote to	2	2	2	2	1
	service a recreational					
		1	1	1	I	1

	vohiclo			1	<u> </u>	
NACNADI (TOO4	vehicle	1	1	1	2	1
MSMRVT201	Apply technical	2	2	2	2	1
	knowledge of recreational					
	vehicle manufacturing to					
	work activities					
MSMSUP100	Apply workplace context	1	2	2	2	1
	to own job					
MSMSUP101	Clean workplace or	1	1	1	1	1
	equipment					
MSMSUP102	Communicate in the	1	2	2	2	1
	workplace					
MSMSUP106	Work in a team	1	1	2	2	1
MSMSUP200	Achieve work outcomes	2	2	2	2	1
MSMSUP204	Pack products or	?	2	1-2	-	1
	materials					
MSMSUP205	Transfer loads	2	1	2	2	2
MSMSUP210	Process and record	2	2	2	2	1
	information					
MSMSUP230	Monitor process	2	2	2	2	1
1413141301 230	operations	_	_	_	-	-
MSMSUP240	Undertake minor	2	2	2	2	1
1013101307240	maintenance	2	2		2	1
NACNACLIDATA		2	2	1	1	1
MSMSUP273	Handle goods	2	2	2	2	1
MSMSUP280	Manage conflict at work		+			
MSMSUP291	Participate in continuous	2	2	2	2	1
	improvement					
MSMSUP292	Sample and test materials	-	2	2	-	3
	and product					
MSMSUP300	Identify and apply process	3	3	3	3	3
	improvements					
MSMSUP301	Apply HACCP to the	2	3	3	3	3
	workplace					
MSMSUP303	Identify equipment faults	2	3	3	3	3
MSMSUP309	Maintain and organise	2	3	2	2	2
	workplace records					
MSMSUP310	Contribute to the	3	3	4	3	3
	development of					
	workplace documentation					
MSMSUP330	Develop and adjust a	3	2-3	2	2-3	3
	production schedule					
MSMSUP382	Provide	3	2	2	4	2
1410141001 002	coaching/mentoring in		-	_		-
	the workplace					
MSMSUP383	Facilitate a team	3	3	3	3	2
	Use structured	2	2	2	2	2
MSMSUP390		2	4	4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
NACNACLIDAGO	problem-solving tools	1	4	1	4	4
MSMSUP400	Develop and monitor	3	4	4	4	4
A 4 5 A 4 5 1 1 5 4 5 5	quality systems	2.4	<u> </u>			2.4
MSMSUP404	Co-ordinate maintenance	3-4	3	3	2	3-4
MSMSUP405	Identify problems in fluid	3	3	3	3	3
	power system					
MSMSUP406	Identify faults in	3-4	3	3-4	3	3-4
	electronic control					
MSMWHS100	Follow WHS procedures	1	1	-	1	-
MSMWHS110	Follow emergency	2	2	2	2	1
	response procedures			<u> </u>		<u> </u>

					I	1
MSMWHS200	Work safely	2	2	2	2	1
MSMWHS201	Conduct hazard analysis	2	2	2	1	1
MSMWHS205	Control minor incidents	2	2	2	2	1
MSMWHS210	Undertake first response	1	1	-	2	-
	to non-fire incidents					
MSMWHS216	Operate breathing	1	1	1	2	1
	apparatus					
MSMWHS217	Gas test atmospheres	-	2	2	2	3
MSMWHS218	Control the risks of falls	2	2	2	1	1
MSMWHS300	Facilitate the	2	3	2	4	2
	implementation of WHS					
	for a work group					
MSMWHS400	Contribute to WHS	4	4	4	4	3
	management system					
MSMWHS401	Assess risk	4	4	4	4-5	4
MSMWHS503	Maintain WHS	4	5	4	4	4
	management system					
MSMWHS510	Manage risk	4	4	4	4	4
MSMWHS601	Develop WHS	5	5	5	4	4
	management system					
MSMWJ201	Use high pressure water	1	2	1	2	2
	jetting equipment					
MSMWJ301	Operate a high pressure	2	3	2	3	3
	water jetting system					
MSMWJ302	Operate a drain cleaning	2	3	2	3	3
	system					
MSMWJ303	Operate a vacuum loading	2	3	2	3	3
	system					

Employment Skills

There are eight Employment Skills:

- communication
- teamwork
- problem solving
- initiative and enterprise
- planning and organising
- self-management
- learning
- technology.

An employment skills summary for each qualification is provided below. Employment skills summaries provide examples of how each skill is applicable to the occupational outcomes covered by the qualification. The summaries are designed to assist trainers and assessors to identify and include employability skills in training and assessment strategies. Employment skills summaries contain information that may also assist in building students' understanding of industry and workplace expectations.

Employment Skills summaries contain general information about industry context, which is further identified as measurable outcomes of performance in the units of competency in each qualification.

Employment skills summaries are not exhaustive lists of qualification requirements or checklists of performance (which are separate assessment tools that should be designed by trainers and assessors after analysis at the unit level).

MSM10116 Certificate I in Process Manufacturing

Communication	Complete all reporting as required
	Report anything unusual
	Receive and relay oral and written messages
	Interpret oral or written messages
	Respond to information
Teamwork	Work as part of a work team
	Understanding the role of individual in organisational structure
	Understanding individual role in achieving section/team, plant and
	company objectives
	Identify individual tasks that are part of the team requirement
Problem solving	Recognise common problems
o de la companya de l	Identify problems and take required action
	Respond to routine problems
Initiative and enterprise	Take appropriate corrective action
μ	Select appropriate equipment
	Identify units to be used
	Distinguish between urgent and non-urgent tasks
Planning and organising	Organise relevant equipment and tools
	Organise requests and tasks
	Plan own work
	Plan and organise activities
	Organise daily work plan
Self-management	Find out what is required for the job
	Recognise a situation requiring action
	Complete own work activities
	Identify task requirements and work role
	Plan own work
	Meet time lines
	Seek assistance from other team members where appropriate
Learning	Recognise anything unusual
	Self-check numerical information
	Clarify cleaning duties
	Ask questions of appropriate person
	Seek advice from relevant personnel
Technology	Use equipment
-	Turn equipment on and off as required by procedures
	Monitor equipment
	Use computer system

MSM10216 Certificate I in Manufacturing (Pathways)

Communication	Complete all reporting as required
Communication	Report anything unusual
	Alert the appropriate individuals
	Record results
	Complete logs and reports
	Record the result
	Receive and relay oral and written messages
	Interpret oral or written messages
	Respond to information
	Complete workplace forms
Teamwork	Working as part of a work team
	Role of individual in organisational structure
	 Individual role in achieving section/team, plant and company objectives
	Work in a team
	Identify individual tasks that are part of the team requirement
Problem solving	Recognise common problems
J	Identify problems and take required action
	Respond to routine problems
Initiative and enterprise	Take appropriate corrective action
·	Select appropriate equipment
	Identify units to be used
	Distinguish between urgent and non-urgent tasks
Planning and organising	Organise relevant equipment and tools
	Organise requests and tasks
	Planning workplace procedures, scheduling and performance
	Plan own work
	Plan and organise activities
	Organise daily work plan
Self-management	Find out what is required for the job
	Recognise a situation requiring action
	Implement within appropriate time constraints
	Complete own work activities
	Identify task requirements and work role
	Plan own work
	Meet time lines
	Seek assistance from other team members where appropriate
Learning	Recognise anything unusual
	Self-check numerical information
	Clarify cleaning duties
	Ask questions of appropriate person
	Seek advice from relevant personnel
Technology	Use equipment
	Turn equipment on and off as required by procedures
	Monitor equipment
	Make measurements
	Use computer system
	Use measuring devices

MSM20116 Certificate II in Process Manufacturing

Camana i antina	Consolitation and allowed decomposition
Communication	Complete logs, reports and plant documentation
	Access and interpret production plans and information
	Provide appropriate workplace information
	Give and follow routine instructions
	Provide written and oral reports
Teamwork	Work as part of a team
	 Identify and describe own role and role of others
	Identify own role and responsibility within a team
Problem solving	 Recognise known faults that occur during the operation
	 Identify and take action on causes of routine faults
	 Identify non-routine process and quality problems and take appropriate
	action
	Respond to routine problems
Initiative and enterprise	Suggest improvements
	Make adjustments to improve equipment performance
	Determine problems needing action
	Report problems outside area of responsibility
	Raise questions regarding requirements and expectations
	Distinguish between causes of faults
	Identify product out of specification
	Safely shutdown equipment in abnormal circumstances
Planning and organising	Plan own work
	Achieve production targets
	Identify production targets
	Recognise hazards and follow appropriate hazard control methods
Self-management	Identify work requirements
	Plan own work requirements from production requests
	Operate within appropriate time constraints and work standards
	Select and use appropriate equipment, materials, processes and procedures
	Identify task outcomes and work role
Learning	Ask questions to gain information
_	Seek clarification
	Participate in improvement procedures
Technology	Check process is operating within required limits
<i>5,</i>	
	Monitor equipment operation
	monitor equipment operation
	Use appropriate instruments

MSM20216 Certificate II in Manufacturing Technology

Communication	Access and interpret standardised documentation
	Complete all reporting as required
	Ask questions to increase understanding about workplace procedures
	Read and interpret instructions
	Respond to information
	Access and use communication tools and equipment
	Apply numeracy skills to work procedures
Teamwork	Work effectively with others
	Share information with peers
	Understand role of individual within team process
	Seek assistance with work operations as required
Problem-solving	Recognise common problems and report inconsistencies
	Monitor the job and make improvements
	Respond to routine problems
	Recommend improvements
Initiative and enterprise	Take correct action and follow procedures
	Recommend changes and improvements
	Take action to make improvements
	Adopt changes in accordance with procedures
Planning and organising	Plan own work
	Organise processes, tools and materials
	Monitor own work outcomes
	Organise and plan activities
	Collect and organise information for work activity
Self-management	Conduct all activities according to safety standards
	Maintain housekeeping standards
	Achieve planned outcomes within time constraints
	Monitor own work performance
	Assess own work
	Seek assistance where appropriate
Learning	Ask questions to aid learning
	Identify own skill requirements
	Ask questions to ensure understanding of own work requirements
Technology	Use equipment and/or or information technology
	Identify equipment appropriate for job
	Use simple measuring devices
	Collect and apply data and information from technology

MSM21015 Certificate II in Recreational Vehicle Service and Repair

Communication	Accessing and interpreting standardised documentation
Communication	Completing all reporting as required
	Asking questions to increase understanding about workplace procedures
	Reading and interpreting instructions
	Responding to information
	Accessing and using communication tools and equipment
	Applying numeracy skills to work procedures
Teamwork	Working effectively with others
Tealliwork	Sharing information with peers
	,
	Understanding role of individual within team process Socking assistance with work apprecians as required.
Darklan arkina	Seeking assistance with work operations as required Page 2 in the page 2 in the page 2 in the page 3 in the
Problem solving	Recognising common problems and reporting inconsistencies
	Monitoring the job and making improvements
	Responding to routine problems
	Recommending improvements
Initiative	Taking correct action and following procedures
and	Recommending changes and improvements
enterprise	Taking action to make improvements
	Adopting changes in accordance with procedures
Planning	Planning own work
and	Organising processes, tools and materials
organising	Monitoring own work outcomes
	Organising and planning activities
	Collecting and organising information for work activity
Self-management	Conducting all activities according to safety standards
	Maintaining housekeeping standards
	Achieving planned outcomes within time constraints
	Monitoring own work performance
	Assessing own work
	Seeking assistance where appropriate
Learning	Asking questions to aid learning
_	Identifying own skill requirements
	Asking questions to ensure understanding of own work requirements
Technology	Using equipment and/or information technology
]	Identifying equipment appropriate for job
	Using simple measuring devices
	Collecting and applying data and information from technology
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MSM21115 Certificate II in Recreational Vehicle Manufacturing

	T
Communication	Accessing and interpreting standardised documentation
	Completing all reporting as required
	Asking questions to increase understanding about workplace procedures
	Reading and interpreting instructions
	Responding to information
	Accessing and using communication tools and equipment
	Applying numeracy skills to work procedures
Teamwork	Working effectively with others
	Sharing information with peers
	Understanding role of individual within team process
	Seeking assistance with work operations as required
Problem solving	Recognising common problems and report inconsistencies
	Monitoring the job and making improvements
	Responding to routine problems
	Recommending improvements
Initiative	Taking correct action and following procedures
and	Recommending changes and improvements
enterprise	Taking action to make improvements
	Adopting changes in accordance with procedures
Planning	Planning own work
and	Organising processes, tools and materials
organising	Monitoring own work outcomes
	Organising and planning activities
	Collecting and organising information for work activity
Self-management	Conducting all activities according to safety standards
	Maintaining housekeeping standards
	Achieving planned outcomes within time constraints
	Monitoring own work performance
	Assessing own work
	Seeking assistance where appropriate
Learning	Asking questions to aid learning
	Identifying own skill requirements
	Asking questions to ensure understanding of own work requirements
Technology	Using equipment and/or or information technology
- <i>-</i>	Identifying equipment appropriate for job
	Using simple measuring devices
	Collecting and applying data and information from technology

MSM30116 Certificate III in Process Manufacturing

 Communication Complete logs and reports Use technical information and manufacturer's information Collect, analyse and organise information Communicate ideas and information Effective use of workplace documentation Maintain workplace records Teamwork Identify and describe own role and role of others Work within a team Resolve conflicts between team members Use teamwork strategies Problem solving Recognise a problem or a potential problem Determine problems needing priority action Refer problems outside area of responsibility to appropriate person, with possible of Seek information and assistance as required to solve problems Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
Collect, analyse and organise information Communicate ideas and information Effective use of workplace documentation Maintain workplace records Teamwork Identify and describe own role and role of others Work within a team Resolve conflicts between team members Use teamwork strategies Problem solving Recognise a problem or a potential problem Determine problems needing priority action Refer problems outside area of responsibility to appropriate person, with possible of Seek information and assistance as required to solve problems Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
Communicate ideas and information Effective use of workplace documentation Maintain workplace records Teamwork Identify and describe own role and role of others Work within a team Resolve conflicts between team members Use teamwork strategies Problem solving Recognise a problem or a potential problem Determine problems needing priority action Refer problems outside area of responsibility to appropriate person, with possible of Seek information and assistance as required to solve problems Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
Effective use of workplace documentation Maintain workplace records Teamwork Identify and describe own role and role of others Work within a team Resolve conflicts between team members Use teamwork strategies Problem solving Recognise a problem or a potential problem Determine problems needing priority action Refer problems outside area of responsibility to appropriate person, with possible of Seek information and assistance as required to solve problems Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
Maintain workplace records Identify and describe own role and role of others Work within a team Resolve conflicts between team members Use teamwork strategies Problem solving Recognise a problem or a potential problem Determine problems needing priority action Refer problems outside area of responsibility to appropriate person, with possible of Seek information and assistance as required to solve problems Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
Teamwork Identify and describe own role and role of others Work within a team Resolve conflicts between team members Use teamwork strategies Problem solving Recognise a problem or a potential problem Determine problems needing priority action Refer problems outside area of responsibility to appropriate person, with possible of Seek information and assistance as required to solve problems Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
Work within a team Resolve conflicts between team members Use teamwork strategies Problem solving Recognise a problem or a potential problem Determine problems needing priority action Refer problems outside area of responsibility to appropriate person, with possible of Seek information and assistance as required to solve problems Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
Resolve conflicts between team members Use teamwork strategies Problem solving Recognise a problem or a potential problem Determine problems needing priority action Refer problems outside area of responsibility to appropriate person, with possible of Seek information and assistance as required to solve problems Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
Use teamwork strategies Problem solving Recognise a problem or a potential problem Determine problems needing priority action Refer problems outside area of responsibility to appropriate person, with possible of Seek information and assistance as required to solve problems Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
 Problem solving Recognise a problem or a potential problem Determine problems needing priority action Refer problems outside area of responsibility to appropriate person, with possible of Seek information and assistance as required to solve problems Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
 Determine problems needing priority action Refer problems outside area of responsibility to appropriate person, with possible of Seek information and assistance as required to solve problems Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
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 Solve problems within area of responsibility Follow through items initiated until final resolution has occurred
Follow through items initiated until final resolution has occurred
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I is not be to be a control of the c
Identify and isolate faults in equipment
Use a range of formal problem solving techniques
Initiative • Identify the most appropriate equipment
Make adjustments to improve equipment performance
• Anticipate the impact of the process on the product
Determine problems needing action
Recommend required action
Report problems outside area of responsibility
Distinguish between causes of faults
Planning • Plan own work requirements
and Plan scope of equipment checks
• Plan and organise activities
Identify tasks to achieve team goals
Organise allocation of tasks
Monitor completion of allocated tasks
Develop and adjust a production schedule
Self-management • Plan own work requirements from production requests
Operate within appropriate time constraints and work standards
Select and use appropriate equipment, materials, processes and procedures
Plan to ensure effective production
Apply workplace procedures
 Identify resource requirements, document and monitor
Recognise limitations and seek timely advice
Learning • Ask questions to gain information
 Identify sources of information to expand knowledge and understanding
Participate in improvement procedures
Participate in development of continuous improvement strategies
Technology • Operation and adjustment of processes
Start up and shut down equipment
Set up equipment
Monitor product/process quality
Function and operating principles of equipment, machine components
Maintain computer based workplace records

MSM30216 Certificate III in Surface Preparation and Coating Application

Comp.mami +!	Maintain annual action plants and the second with an extension
Communication	Maintain communication about multiple subjects and with multiple audiences Complete inside the angle of the surgery and at the surgery and a
	Complete incident and other reports
	Use technical information and manufacturer information Called analyse and organica information.
	 Collect, analyse and organise information Communicate ideas and information
Teamwork	
realliwork	 Identify and describe own role and role of others Work within a team
	Resolve conflicts between team members
	Teamwork strategies
Problem solving	
Problem solving	 Recognise a problem or a potential problem Determine problems needing priority action
	Refer problems outside area of responsibility to appropriate person
	 Identify appropriate theory base for problem
	Seek information and assistance as required to solve problems
	Solve problems within area of responsibility
	Follow through items initiated until final resolution has occurred
	Identify and isolate faults in equipment
	Use a range of formal problem solving techniques
Initiative	Identify the most appropriate process conditions for equipment
and	Determine problems needing action
enterprise	Recommend required action
enterprise	Report problems outside area of responsibility
	Distinguish between causes of faults
Planning	Prioritise actions to achieve required outcomes
and	Plan own work requirements and assist others to plan theirs
organising	Plan and organise activities
Organismg	Identify tasks to achieve team goals
	Organise allocation of tasks
	Monitor completion of allocated tasks
	Develop and adjust a production schedule
Self-management	Plan own work requirements from job requests
Jen management	Operate within appropriate time constraints and work standards
	Select and use appropriate equipment, materials, processes and procedures
	Plan to ensure effective production
	Apply standard procedures
	Identify resource requirements
	Recognise limitations and seek timely advice
Learning	Ask questions to gain information
	Identify sources of information to expand knowledge and understanding
	Participate in improvement procedures
	Participate in development of continuous improvement strategies
1	Participate in development of continuous improvement strategies
Technology	Assist others develop competency
Technology	Assist others develop competencyOperate and adjust equipment
Technology	 Assist others develop competency Operate and adjust equipment Start up and shut down equipment
Technology	 Assist others develop competency Operate and adjust equipment Start up and shut down equipment Set up equipment
Technology	 Assist others develop competency Operate and adjust equipment Start up and shut down equipment Set up equipment

MSM30318 Certificate III in Manufactured Mineral Products

	The second secon
Communication	Maintain communication about multiple subjects and with multiple audiences
	Complete incident and other reports
	Use technical information and manufacturer information
	Collect, analyse and organise information
	Communicate ideas and information
	Use and contribute to workplace documentation
- 1	Maintain workplace records
Teamwork	Identify and describe own role and role of others
	Work within a team
	Resolve conflicts between team members
5 11 11	Use teamwork strategies
Problem solving	Recognise a problem or a potential problem
	Determine problems needing priority action
	Refer problems outside area of responsibility to appropriate person
	Identify appropriate theory base for problem
	Seek information and assistance as required to solve problems
	Solve problems within area of responsibility
	Follow through items initiated until final resolution has occurred
	Identify and isolate faults in equipment
	Use a range of formal problem solving techniques
Initiative and	Identify the most appropriate process conditions for equipment Output Description and leave a solid parties.
enterprise	Determine problems needing action
	Recommend required action Parant and blanca satisfactors of many activities.
	Report problems outside area of responsibility Platty suits between access of faults.
DI 1 1	Distinguish between causes of faults
Planning and	Prioritise actions to achieve required outcomes
organising	Plan own work requirements and assist others to plan theirs
	Plan and organise activities
	Identify tasks to achieve team goals
	Organise allocation of tasks
	Monitor completion of allocated tasks
0.16	Develop and adjust a production schedule
Self-management	Plan own work requirements from job requests
	Operate within appropriate time constraints and work standards
	Select and use appropriate equipment, materials, processes and procedures
	Plan to ensure effective production
	Apply standard procedures Identify an apply applying a partial a
	Identify resource requirements Proposition and apply time to a decide a decide and a second a second and a second and a second and a second and a second an
	Recognise limitations and seek timely advice
Learning	Ask questions to gain information
	Identify sources of information to expand knowledge and understanding
	Participate in improvement procedures Participate in development of continuous improvement strategies.
	Participate in development of continuous improvement strategies
	Assist others develop competency
Technology	Operate and adjust equipment
	Start up and shut down equipment
	Set up equipment
	Monitor quality
	Function and operating principles of equipment
	Maintain workplace records

MSM31015 Certificate III in Recreational Vehicle Service and Repair

Communication	- Maintaining communication about multiple subjects and with multiple audiences
Communication	 Maintaining communication about multiple subjects and with multiple audiences Completing incident and other reports
	Using technical information and manufacturer information Collecting analysing and organising information
	Collecting, analysing and organising information Company places and information
	Communicating ideas and information Using and approximation to supplie to the supplier of a supplier of the supplier of
	Using and contributing to workplace documentation
	Maintaining workplace records
Teamwork	Identifying and describing own role and role of others
	Working within a team
	Resolving conflicts between team members
	Using teamwork strategies
Problem solving	Recognising problems or potential problems
	Determining problems needing priority action
	Referring problems outside area of responsibility to appropriate person with possible
	causes
	Identifying appropriate theory base for problem
	Seeking information and assistance as required to solve problems
	Solving problems within area of responsibility
	Following through items initiated until final resolution has occurred
	Identifying and isolating faults in equipment
	Using a range of formal problem-solving techniques
Initiative	Identifying the most appropriate process conditions for equipment
and	Determining problems needing action
enterprise	Recommending required action
·	Reporting problems outside area of responsibility
	Distinguishing between causes of faults
Planning	Prioritising actions to achieve required outcomes
and	Planning own work requirements and assisting others to plan theirs
organising	Planning and organising activities
0 0	Identifying tasks to achieve team goals
	Organising allocation of tasks
	Monitoring completion of allocated tasks
	Developing and adjusting a production schedule
Self-management	Planning own work requirements from job requests
Jen management	Operating within appropriate time constraints and work standards
	Selecting and using appropriate equipment, materials, processes and procedures
	Planning to ensure effective production
	Applying standard procedures
	Identifying, documenting and monitoring resource requirements
	Recognising limitations and seeking timely advice
Learning	Asking questions to gain information
Learning	Identifying sources of information to expand knowledge and understanding
	· ·
	 Participating in improvement procedures Participating in development of continuous improvement strategies
Taskaslas	Helping others develop competency
Technology	Operating and adjusting equipment Chapting and adjusting decompositions at the second control of the sec
	Starting up and shutting down equipment
	Setting up equipment
	Monitoring quality
	Understanding function and operating principles of equipment
	Maintaining workplace records

MSM31115 Certificate III in Recreational Vehicle Manufacturing

Communication	 Maintaining communication about multiple subjects and with multiple audiences
	Completing incident and other reports
	 Using technical and manufacturer information
	 Collecting, analysing and organising information
	 Communicating ideas and information
	 Using and contributing to workplace documentation
	Maintaining workplace records
Teamwork	Identifying and describing own role and role of others
	Working within a team
	Resolving conflicts between team members
	Using teamwork strategies
Problem solving	Recognising problems or potential problems
	Determining problems needing priority action
	Referring problems outside area of responsibility to appropriate person, with possible
	causes
	Identifying appropriate theory base for problem
	Seeking information and assistance as required to solve problems
	Solving problems within area of responsibility
	Following through items initiated until final resolution has occurred
	Identifying and isolating faults in equipment
	Using a range of formal problem-solving techniques
Initiative and enterprise	Identifying the most appropriate process conditions for equipment
initiative and enterprise	Determining problems needing action
	Recommending required action
	Reporting problems outside area of responsibility
Diamaina and againing	Distinguishing between causes of faults Distribution a setting a teaching a required outcomes.
Planning and organising	Prioritising actions to achieve required outcomes Planning own work requirements and assisting others to plan theirs.
	Planning own work requirements and assisting others to plan theirs Planning and organizing activities
	Planning and organising activities Identifying tools to policy tools and activities.
	Identifying tasks to achieve team goals
	Organising allocation of tasks Magilian is a samulation of allocated tasks.
	Monitoring completion of allocated tasks
	Developing and adjusting a production schedule
Self-management	Planning own work requirements from job requests
	 Operating within appropriate time constraints and work standards
	Selecting and using appropriate equipment, materials, processes and procedures
	Planning to ensure effective production
	Applying standard procedures
	Identifying documenting and monitoring resource requirements
	Recognising limitations and seeking timely advice
Learning	Asking questions to gain information
	 Identifying sources of information to expand knowledge and understanding
	Participating in improvement procedures
	 Participating in development of continuous improvement strategies
	Helping others develop competency
Technology	Operating and adjusting equipment
	Starting up and shutting down equipment
	Setting up equipment
	Monitoring quality
	Understanding function and operating principles of equipment
	Maintaining workplace records
	5 1

MSM31215 Certificate III in Recreational Vehicle and Accessories Retailing

Communication	Using questioning and active listening to ascertain and respond to customer needs to
Communication	ensure customers enjoy a positive experience that reflects business values
	Regularly carrying out verbal instructions from other team members and supervisors
	Reading and interpreting simple workplace documents, completing simple written
	workplace forms and sharing work-related information with other team members
Teamwork	
reamwork	Effectively participating in retail store teams
	working independently to complete own tasks and supporting other team members
	where appropriate
	Leading small retail teams, where required, in the context of the job role
	Mentoring and supporting other team members
Problem solving	Demonstrating sensitivity to customer needs and concerns
	Anticipating problems and acting to avoid them where possible
	Solving a range of operational retail store problems individually or in the context of a
	team structure where, after clarification, existing policies and infrastructure may be
	applied to source information and resources and develop practical and sustainable
	solutions
Initiative and enterprise	Looking for opportunities to do things better and suggesting ideas to other team
·	members and supervisors in the context of the job role
	Translating ideas into action by positively accepting and adapting to changes in
	procedures or arrangements at the store level
Planning and organising	
r larming and organismig	members within the context of organisation objectives and the current store
	situation
	Coordinating resources to ensure that work is carried out according to timelines and
	priorities
	 Coordinating and/or implementing changes arising from continuous improvement
C-1f	processes
Self-management	Understanding how a personal job role fits into the context of the wider business
	values and directions
	Working within the store culture by practising inclusive behaviour, effective
	management of personal presentation, hygiene and time
	Efficiently prioritising and completing delegated tasks
	Maintaining own knowledge of the job role, reviewing own performance and actively
	seeking and acting upon advice and guidance
Learning	Identifying personal strengths and weaknesses in the context of the job role and
	recognising how to personally learn best at work
	Seeking opportunities for formal education in the context of a current role or future
	retail job opportunities
	Accepting opportunities to learn new ways of doing things and sharing knowledge
	and skills with other store team members
Technology	
	1 : :
	Surety (vvris) procedures
Technology	 Using of point-of-sale systems and/or selecting and using a range of other retail technology in the context of available equipment and store procedures Recognising and reporting faulty equipment and following store work health and safety (WHS) procedures

MSM40116 Certificate IV in Process Manufacturing

Communication	Complete workplace documentation and records
Communication	Use communication technologies efficiently
	Develop work instructions, specifications and procedures
	Communicate with all team members
	Demonstrate effective and appropriate communication and interpersonal skills
	when dealing with clients
	Use most appropriate communication method given priority, cost and
	customer facilities
	Access, interpret and apply technical information
Teamwork	Work cooperatively with people of different ages, gender, race or religion
	Liaise with, and provide support to, other team members
	Work as part of a team
	Identify and manage performance required to meet internal and external
	customer needs in own work and team
	Manage technical processes and provide problem solving support to others
Problem-solving	Investigate problem causes
	Identify, rectify or report potential difficulties associated with manufacture of
	products or provision of services
	Identify environmental features, regulations, insurance requirements, legal
	requirements and other factors which may affect the product or service to be
	provided
	Use material and process knowledge to solve problems
	Identify hazards and suggest control measures
	Determine production requirements
	Conduct tests and analyse results to determine and assess production
	requirements
Initiative and enterprise	Seek feedback on products, processes and procedures
	Gather and analyse information and apply to work-related processes
	Record information on the quality and other indicators of products Suggest a bigues and of efficient and dustion processes.
	Support achievement of efficient production processes Determine and act on situations requiring further information or problem.
	Determine and act on situations requiring further information or problem solving
Dlanning and organising	 solving Identify hazards and implement appropriate hazard control measures
Planning and organising	Demonstrate time management skills
	Source and prepare materials and resources
	Sequence work to maximise safety and productivity
Self-management	Interpret and apply relevant Acts and regulations
Jen-management	Keep the work area clean and tidy at all times
	Monitor own work and work of team and identify and act on any quality issues
	Understand own work activities
	Manage own time to meet deadlines
	Implement workplace procedures and instructions
Learning	Implement learning activities, as appropriate, to ensure achievement of
	specified production requirements
	Assess competencies in meeting job requirements
	Be supportive, assertive and use interpersonal skills
	Identify own training needs and seek skill development if required
	Gather feedback on own work to assess effectiveness in meeting objectives
	and integrate information into own practice
Technology	Use computer software applications effectively
<i></i>	Work with technology safely and according to workplace standards
	Help others use technology efficiently and safely
	Use testing technology

MSM41015 Certificate IV in Recreational Vehicles

Communication	Completing workplace documentation and records
	Using communication technologies efficiently
	Developing work instructions, specifications and procedures Company procedure a with all topics or one have
	Communicating with all team members Parameters in a fife time and a granulate accommunication and integration and integr
	Demonstrating effective and appropriate communication and interpersonal skills when dealing with clients.
	 dealing with clients Using most appropriate communication method given priority, cost and customer
	Using most appropriate communication method given priority, cost and customer facilities
	 Accessing, interpreting and applying technical information
Teamwork	Working cooperatively with people of different ages, gender, race or religion
Tealliwork	Liaising with and providing support to other team members
	Working as part of a team
	 Identifying and managing performance required to meet internal and external customer
	needs in own work and team
	 Managing technical processes and providing problem-solving support to others
Problem solving	Investigating problem causes
	 Identifying, rectifying or reporting potential difficulties associated with manufacture of
	products or provision of services
	Identifying environmental features, regulations, insurance requirements, legal
	requirements and other factors which may affect the product or service to be provided
	Using material and process knowledge to solve problems
	Identifying hazards and suggesting control measures
	Determining production requirements
	Conducting tests and analysing results to determine and assess production requirements
Initiative	Seeking feedback on products, processes and procedures
and	Gathering and analysing information and applying to work-related processes
enterprise	Recording information on the quality and other indicators of products
	Supporting achievement of efficient production processes
	Determining and acting on situations requiring further information or problem solving
Planning	Identifying hazards and implementing appropriate hazard control measures
and	Demonstrating time-management skills
organising	Sourcing and preparing materials and resources
	Sequencing work to maximise safety and productivity
Self-management	Interpreting and applying relevant Acts and regulations
	Keeping the work area clean and tidy at all times
	Monitoring own work and work of team, and identifying and acting on any quality issues
	Understanding own work activities
	Managing own time to meet deadlines
	Implementing workplace procedures and instructions
Learning	Implementing learning activities as appropriate to ensure achievement of specified
	production requirements
	Assessing competencies in meeting job requirements Reing supportive and assertive, and using interpersonal skills.
	 Being supportive and assertive, and using interpersonal skills Identifying own training needs and seeking skill development if required
	 Identifying own training needs and seeking skill development if required Gathering feedback on own work to assess effectiveness in meeting objectives and
	integrating information into own practice
Tochnology	
Technology	Using computer software applications effectively Working with technology safely and according to workplace standards.
	 Working with technology safely and according to workplace standards Helping others use technology efficiently and safely
	Using testing technology
	Osing testing technology

MSM41115 Certificate IV in Recreational Vehicle and Accessories Retailing

Communication	Negotiating effectively with team members and other managers on business
	values, directions and day-to-day operational matters
	Reading, analysing and communicating workplace information to team members
	and other managers
	Writing reports and completing business documentation in the context of the job
	role
Teamwork	Leading a retail or wholesale business team, and mentoring and supporting team
	members in the context of a retail supervision or management role
	Effectively participating in wider retail business supervisory/management teams
	Working independently to complete own tasks and supporting other team
	members, where appropriate
Problem solving	Implementing customer service strategies
	Anticipating problems and acting to mitigate where possible
	Solving a range of operational retail or wholesale operational business problems,
	individually or in the context of a wider team management structure
	Clarifying issues and applying existing policies and infrastructure to source
	information and resources, and developing practical and sustainable solutions
Initiative	Creating an operational business team customer service and continuous
and	improvement environment across all performance areas
enterprise	Providing positive feedback, encouraging team members to do things better and
·	be personally receptive to team members ideas
	Translating ideas into action by positively accepting and initiating changes in
	procedures or arrangements at the business level
Planning	Establishing and communicating clear goals and deliverables for self and team
and	members within the context of organisation objectives and the current business
organising	situation
	Coordinating resources to ensure that work is carried out according to timelines
	and priorities
	Coordinating and/or implementing changes arising from continuous improvement
	processes
Self-management	Understanding how own personal job role fits into the context of the wider
J	business values and directions
	Working within the retail or wholesale business culture by practising inclusive
	behaviour, effective management of personal presentation, hygiene and time-
	management
	Efficiently prioritising and completing delegated tasks
	Maintaining own knowledge of the job role, reviewing own performance and
	actively seeking and acting upon advice and guidance
Learning	Identifying personal strengths and weaknesses in the context of the job role and
J	recognising how to personally learn best at work
	Seeking opportunities for formal education in the context of a current role or
	future retail job opportunities
	 Accepting opportunities to learn new ways of doing things and sharing knowledge
	and skills with other business managers and team members
Technology	Adapting to new business-related technology skill requirements
	 Selecting and using retail or other information and communications technology,
	where relevant, to support business operations and planning in the context of key
	business performance objectives and personal job role.
L	business performance objectives and personal job fole.

MSM50316 Diploma of Production Management

Communication	Manage implementation of production improvement procedures and develop and distribute related information.
	develop and distribute related information
	Develop standardised documentation on behalf of an area or group of work teams
	Share and discuss information with others about enterprise activities
	Develop and communicate workplace procedures
	Provide information and clarifications to team leaders and other employees
	on workplace procedures in relation to production
	Provide and interpret instructions, specifications, standard operating
	procedures and other work-related documents
	Provide assistance or information to relevant personnel
	Debrief on workplace changes with relevant stakeholders
	Record production, emissions and other work-related information
	Access and use workplace communication tools and equipment
	Apply numeracy skills to work procedures
	Provide information about team activities to managers, supervisors and
	customers
Teamwork	Identify roles of work teams where teamwork is used as the form of work
	organisation
	Supervise and lead others in a production environment
	Share work-related information with peers, including team members,
	supervisors and management
	Identify hazards to employees and visitors
	Identify the value chain and advise other employees as to how they can
	contribute to the final quality of the product
	Review changes to work practices and work relationships with team leaders
	and other employees
	Provide assistance with planning work operations, as required
	Seek assistance with work operations from specialists and other employees,
	as required
	Participate in multidisciplinary teams, as required
Problem-solving	Monitor production and maintenance activities
	Analyse inconsistencies, non-compliances, faults or hazards
	Identify factors within work area that are a constraint to work efficiency or
	reaching of production outcomes
	Identify essential and non-essential practices
	Implement methods of increasing features/benefits of products or processes Administration and the second and the improvements to work
	Monitor responsibilities of teams and make improvements to work
	organisation
	Identify process steps which cause a problem and implement improvement
	Identify process steps which cause a problem and implement improvement processes
	 Identify process steps which cause a problem and implement improvement processes Monitor production performance and implement improvement processes
	 Identify process steps which cause a problem and implement improvement processes Monitor production performance and implement improvement processes Compare shift or area required performance with actual performance
	 Identify process steps which cause a problem and implement improvement processes Monitor production performance and implement improvement processes Compare shift or area required performance with actual performance Identify situations where compliance to specifications or safety standards is
	 Identify process steps which cause a problem and implement improvement processes Monitor production performance and implement improvement processes Compare shift or area required performance with actual performance Identify situations where compliance to specifications or safety standards is unlikely
	 Identify process steps which cause a problem and implement improvement processes Monitor production performance and implement improvement processes Compare shift or area required performance with actual performance Identify situations where compliance to specifications or safety standards is unlikely Identify, recommend and implement improvements
	 Identify process steps which cause a problem and implement improvement processes Monitor production performance and implement improvement processes Compare shift or area required performance with actual performance Identify situations where compliance to specifications or safety standards is unlikely Identify, recommend and implement improvements Identify causes of identified faults and take appropriate action
	 Identify process steps which cause a problem and implement improvement processes Monitor production performance and implement improvement processes Compare shift or area required performance with actual performance Identify situations where compliance to specifications or safety standards is unlikely Identify, recommend and implement improvements Identify causes of identified faults and take appropriate action Investigate causes of deviations from targets and standards in relation to
	 Identify process steps which cause a problem and implement improvement processes Monitor production performance and implement improvement processes Compare shift or area required performance with actual performance Identify situations where compliance to specifications or safety standards is unlikely Identify, recommend and implement improvements Identify causes of identified faults and take appropriate action Investigate causes of deviations from targets and standards in relation to production
Initiative	 Identify process steps which cause a problem and implement improvement processes Monitor production performance and implement improvement processes Compare shift or area required performance with actual performance Identify situations where compliance to specifications or safety standards is unlikely Identify, recommend and implement improvements Identify causes of identified faults and take appropriate action Investigate causes of deviations from targets and standards in relation to production Undertake root cause analysis
Initiative and	 Identify process steps which cause a problem and implement improvement processes Monitor production performance and implement improvement processes Compare shift or area required performance with actual performance Identify situations where compliance to specifications or safety standards is unlikely Identify, recommend and implement improvements Identify causes of identified faults and take appropriate action Investigate causes of deviations from targets and standards in relation to production Undertake root cause analysis Manage procedures and systems for optimum outcomes
Initiative and enterprise	 Identify process steps which cause a problem and implement improvement processes Monitor production performance and implement improvement processes Compare shift or area required performance with actual performance Identify situations where compliance to specifications or safety standards is unlikely Identify, recommend and implement improvements Identify causes of identified faults and take appropriate action Investigate causes of deviations from targets and standards in relation to production Undertake root cause analysis

	Identify methods of increasing contribution of work teams to production
	Identify and implement changes and improvements
	Monitor processes and equipment to ensure cost efficiency
	Implement and monitor work practices to reduce waste
	Participate in multidisciplinary teams to develop new products or processes
Planning	Ensure work areas comply with sustainability obligations and requirements
and	Identify and manage processes, tools and materials
organising	Implement improvements in accordance with procedures
0 0	Distinguish between essential and non-essential practices
	Implement use of planning tools within work of teams
	Determine and prioritise required actions
	Collect, organise and analyse information from work activities
	Monitor work activities according to safety and workplace standards
	Set production targets and outcomes
	Interpret data and information as required by own job
	Ask questions to ensure there is understanding of work requirements in
	teams and among other employees
Self-management	Recommend methods of increasing own contribution to the value chain
Jen-management	Adjust work processes according to procedures and customer requirements
	 Identify and manage impact of change in own work
	Minimise waste in own work activity
	Assess own work performance
	·
	Set personal objectives for work performance Manage out time
Lagraina	Manage own time Identify a bill as a vice as a feel and to see as a subset.
Learning	Identify skill requirements of self and team members Among a skill development to initiation for self and others.
	Arrange skill development training for self and others Adout to about in a week as a wine month.
	Adapt to changing work requirements Adapt to changing work requirements Adapt to changing work requirements
	Ask questions to aid learning of others I dentify a ground additional skill according
	Identify personal skill gaps and additional skill needs
	Ask questions to ensure understanding of own work requirements
	Monitor own work and identify areas for improvement
	Seek feedback on work performance
	Provide feedback on work performance to team leaders and team members
Technology	Monitor technology to ensure production according to legislative
	requirements and workplace standards
	Identify equipment and processes appropriate for jobs and skill levels of
	employees
	Provide appropriate equipment to ensure safety and efficiency according to
	skill levels of employees
	Assess operational efficiency of technology within own skill level and that of
	team members
	Analyse data and other information from equipment reports
	Conduct failure mode effects analyses
	Use information technology appropriate for job
	Manage maintenance procedures appropriate to job and processes
	according to skill levels of team members

MSM51015 Diploma of Recreational Vehicles

Communication	Managing implementation of work health and safety (WHS) procedures, and developing and distributing related safety information
	Developing standardised documentation on behalf of an area or group of work
	teams
	Sharing and discussing information with others about activities
	Developing and communicating workplace procedures Providing information and also identifications to take a good at her graphs and at her graphs and at her graphs.
	 Providing information and clarifications to team leaders and other employees on workplace procedures
	Providing and interpreting instructions, specifications, standard operating
	procedures (SOPs) and other work-related documents
	Providing assistance or information to relevant personnel
	Debriefing on workplace changes with relevant stakeholders Page displayed an advantage of a debag work relevant information.
	Recording production or other work-related information Associate and using available as assembly ideal and a suing and
	Accessing and using workplace communication tools and equipment Applying a communication tools and equipment
	Applying numeracy skills to work procedures Providing information about team activities to managers, supervisors and systemers.
Toomusels	Providing information about team activities to managers, supervisors and customers Identifying roles of work teams where teamwork is used as the form of work.
Teamwork	 Identifying roles of work teams where teamwork is used as the form of work organisation
	Supervising and leading others in a production environment
	Sharing production or work-related information with peers, including team
	members, supervisors and management
	Identifying hazards to employees and visitors
	 Identifying the value chain and advising other employees as to how they can contribute to the final quality of the product
	Reviewing changes to work practices and work relationships with team leaders and
	other employees
	Providing assistance with planning work operations, as required
	Seeking assistance with work operations from specialists and other employees, as
	required
5 11 11	Participating in multidisciplinary teams, as required
Problem solving	Monitoring production and maintenance activities Application in a production and maintenance for the contraction.
	Analysing inconsistencies, non-compliances, faults or hazards Identifying factors within work area that are a constraint to work officiency or
	 Identifying factors within work area that are a constraint to work efficiency or reaching of production outcomes
	 Identifying essential and non-essential practices
	 Implementing methods of increasing features/benefits of products or processes
	 Monitoring responsibilities of teams and making improvements to work
	organisation
	 Identifying process steps which cause a problem and implementing improvement
	processes
	Monitoring WHS performance and implementing WHS improvement processes
	Comparing shift or area required performance with actual performance
	Identifying situations where compliance to specifications or safety standards is unlikely
	Identifying, recommending and implementing improvements
	Distinguishing between random and identifiable causes of work problems
	Identifying causes of identified faults and taking appropriate action
	Investigating causes of quality deviations
	Undertaking root cause analysis
	Identifying deviations and fault patterns
Initiative	Managing procedures and systems for optimum outcomes
and	Analysing feedback on procedures and systems
enterprise	Analysing problems, implications or suggestions for improvements
	Adjusting work activities according to changes in customer requirements

	Identifying make de of increasing contribution of world to come to the value shair.
	Identifying methods of increasing contribution of work teams to the value chain
	Identifying and implementing changes and improvements
	Monitoring processes and equipment to ensure cost-efficiency
	Managing 5S procedures
	Implementing and monitoring work practices to reduce waste
	Participating in multidisciplinary teams to develop new products or processes
Planning	Planning work of teams to meet required standards
and	Ensuring work areas comply with WHS procedures
organising	Identifying and managing processes, tools and materials
	Implementing improvements in accordance with procedures
	Monitoring and adjusting production/process
	Distinguishing between essential and non-essential practices
	Implementing use of planning tools within work teams
	Monitoring implementation of 5S procedures in teams
	Determining and prioritising required actions
	Collecting, organising and analysing information from work activities
	Monitoring work activities according to safety and workplace standards
	Setting production targets and outcomes
	Interpreting data and information as required by own job
	Asking questions to ensure understanding of work requirements in teams and
	among other employees
Self-	Recommending methods of increasing own contribution to the value chain
manageme	Adjusting work processes according to procedures and customer requirements
nt	Identifying and managing impact of change in own work
	Minimising waste in own work activity
	Assessing own work performance
	Setting personal objectives for work performance
	Managing own time
Learning	Identifying skill requirements of self and team members
	Arranging skill development training for self and others
	Adapting to changing work requirements
	Asking questions to aid learning of others
	Identifying personal skill gaps and additional skills needs
	Asking questions to ensure understanding of own work requirements
	Monitoring own work and identifying areas for improvement
	Seeking feedback on work performance
	Providing feedback on work performance to team leaders and team members
Technology	Monitoring technology to ensure safety according to legislative requirements and
. cciniology	workplace standards
	Identifying equipment and processes appropriate for jobs and skill levels of
	employees
	Providing appropriate equipment to ensure safety and efficiency according to skill
	levels of employees
	Assessing operational efficiency of technology within own skill level and that of
	team members
	Acting on reports of faulty operation of equipment
	Analysing data and other information from equipment reports
	Conducting failure mode effects analyses
	-
	Using information technology appropriate for job Managing maintenance procedures appropriate to job and processes according to
	Managing maintenance procedures appropriate to job and processes according to skill levels of team members.
	skill levels of team members

Delivering training and conducting assessment

Skilled trainers and assessors

Assessors must satisfy the assessor competency requirements that are in place at the time of the assessment as set by the VET regulator.

The RTO's training and assessment must be delivered only by persons who have:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- and the specified training and assessment credential.

Industry experts may also be involved in the assessment judgement, working alongside the trainer and/or assessor to conduct the assessment.

Currency can be demonstrated through one or more of:

- being currently employed undertaking the type of work being assessed
- being employed by the organisation undertaking the type of work being assessed and having maintained currency in accordance with that organisation's policies and procedures
- having consulted/had contact with an organisation undertaking the type of work being assessed within the last twelve months, the consultation/contact being related to assessment
- conducting on-the-job training/assessments of the type of work being assessed
- being an active member of a relevant professional body and participating in activities relevant to the assessment of this type of work.

Mode of delivery

Training and assessment of the MSM Manufacturing Training Package may be face to face, online, through workplace training or a mixture of different modes/blended delivery.

Students can be assessed by RPL, on the job, off the job or a combination as long as the Principles of Assessment and Rules of Evidence are met.

Conducting assessments

Units of competency should be assessed holistically and the judgement of competence based on a holistic assessment of the assessment requirements.

The collection of performance evidence:

- should occur over a range of situations which include typical disruptions to normal, smooth operation
- will typically include a supervisor (third party) report or other evidence, focusing on consistent
 performance and problem recognition and solving. A supervisor/third-party report must be
 prepared by someone who has a direct, relevant, current relationship with the person being
 assessed and who is in a position to form a judgement on workplace performance relevant to
 the unit of competency
- may use industry-based simulation for all or part of the unit, as specified in each unit, particularly where safety, lack of opportunity or significant cost is an issue.

Assessment should occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions that cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Knowledge evidence may be collected concurrently with performance evidence (provided a record is kept) or through an independent process, such as workbooks, written assessments or interviews (provided a record is kept).

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with the unit.

Foundation skills are integral to competent performance of the unit and should not be assessed separately.

As a minimum, assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Australian Qualifications Framework: First edition, July 2011: www.aqf.edu.au/

TGA website, training packages: www.training.gov.au

The Australian Industry and Skills Committee (AISC) https://www.aisc.net.au/ Department of

Education and Training: https://www.education.gov.au/ Australian Skills Quality Authority

(ASQA): www.asqa.gov.au

Victorian Registration and Qualifications Authority: http://www.vrqa.vic.gov.au

WA Training Accreditation Council: http://www.tac.wa.gov.au

The Australian Apprenticeships site: www.australianapprenticeships.gov.au offers information about traineeships and apprenticeships and includes links to state and territory authorities (STAs) that monitor provision.

State Training Authorities

Australian Capital Territory: http://www.det.act.gov.au New South Wales:

https://www.det.nsw.edu.au Northern Territory: https://business.nt.gov.au/ Queensland:

http://training.qld.gov.au

South Australia: http://www.education.vic.gov.au Victoria: http://www.education.vic.gov.au

Tasmania: http://www.education.tas.gov.au Western Australia: http://www.education.tas.gov.au Western Australia: http://www.dtwd.wa.gov.au

LiteracyNet – key information about Australian adult literacy activities and links to a range of program, professional development, resource and research sites:

https://www.education.gov.au/literacy-net

National Foundation Skills Strategy for Adults:

https://www.education.gov.au/national-foundation-skills-strategy-adults

Appendix A: Mapping of qualifications

MSM Release 2.0 to Release 3.0

(Release 3 qualification)

*E: equivalent, N: not equivalent

MSM Manufacturing Training Package Release 2.0	MSM Manufacturing Training Package Release 3.0	Comments	E/N
MSM10116 Certificate I in Process	MSM10116 Certificate I in	no changes	Е
Manufacturing	Process Manufacturing		
MSM10216 Certificate I in	MSM10216 Certificate I in	no changes	Е
Manufacturing (Pathways)	Manufacturing (Pathways)		
MSM20116 Certificate II in Process	MSM20116 Certificate II in	no changes	Е
Manufacturing	Process Manufacturing		
MSM20216 Certificate II in	MSM20216 Certificate II in	no changes	Е
Manufacturing Technology	Manufacturing Technology		
MSM21015 Certificate II in	MSM21015 Certificate II in	no changes	Е
Recreational Vehicle Service and	Recreational Vehicle Service and		
Repair	Repair		
MSM21115 Certificate II in	MSM21115 Certificate II in	no changes	Е
Recreational Vehicle Manufacturing	Recreational Vehicle		
_	Manufacturing		
MSM30116 Certificate III in Process	MSM30116 Certificate III in	Additional electives	Е
Manufacturing	Process Manufacturing		
MSM30216 Certificate III in Surface	MSM30216 Certificate III in Surface	no changes	Е
Preparation and Coating Application	Preparation and Coating Application		
	MSM30318 Certificate III in	New qualification.	Е
	Manufactured Mineral Products	Supersedes and is	
		equivalent to	
		PMC30116	
		Certificate III in	
		Manufactured	
		Mineral Products	
MSM31015 Certificate III in	MSM31015 Certificate III in	no changes	Е
Recreational Vehicle Service and	Recreational Vehicle Service and	_	
Repair	Repair		
MSM31115 Certificate III in	MSM31115 Certificate III in	no changes	Е
Recreational Vehicle Manufacturing	Recreational Vehicle	_	
_	Manufacturing		
MSM31215 Certificate III in	MSM31215 Certificate III in	no changes	E
Recreational Vehicle and Accessories	Recreational Vehicle and Accessories		
Retailing	Retailing		
MSM40116 Certificate IV in Process	MSM40116 Certificate IV in	no changes	Е
Manufacturing	Process Manufacturing		
MSM41015 Certificate IV in	MSM41015 Certificate IV	no changes	E
Recreational Vehicles	in Recreational Vehicles		
MSM41115 Certificate IV in	MSM41115 Certificate IV in	no changes	Е
Recreational Vehicle and Accessories	Recreational Vehicle and Accessories		
Retailing	Retailing		
MSM50316 Diploma of Production	MSM50316 Diploma of	no changes	Е
Management	Production Management		
Widilagement			
MSM51015 Diploma of Recreational	MSM51015 Diploma of	no changes	Е

Appendix B: Mapping of units of competency

MSM Release 2.0 to Release 3.0

(Release 3 units)

*E: Equivalent, N: Not Equivalent

MSM Manufacturing	Training Package R2.0	MSM Manufacturing	Training Package R3.0		
Code	Title	Code	Title	comment	E/N*
MSMBLIC001	Licence to operate a			no change	
	standard boiler				
MSMBLIC002	Licence to operate an			no change	
	advanced boiler				
MSMENV172	Operate a vacuum			no change	
	loading system				
MSMENV272	Participate in			no change	
	environmentally				
	sustainable work				
	practices				
MSMENV472	Implement and			no change	
	monitor				
	environmentally				
	sustainable work				
	practices				
MSMENV672	Develop workplace			no change	
	policy and procedures				
	for environmental				
	sustainability				
MSMOPS100	Use equipment			no change	
MSMOPS101	Make measurements			no change	
MSMOPS102	Perform tasks to			no change	
	support production				
MSMOPS200	Operate equipment			no change	
MSMOPS201	Cut polymer materials			no change	
MSMOPS202	Fabricate polymer			no change	
	products				
MSMOPS212	Use organisation			no change	
	computers or data				
	systems				
MSMOPS244	Lay out and cut			no change	
	materials				
MSMOPS301	Treat corrosion			no change	
MSMOPS363	Organise on-site work			no change	
MSMOPS400	Optimise process/plant			no change	
	area				
MSMOPS401	Trial new process or			no change	
	product				
MSMOPS601	Design equipment and			no change	
	system modifications				
MSMPCI101	Adapt to work in			no change	
	industry				
MSMPCI102	Apply effective work			no change	
	practices				
MSMPCI103	Demonstrate care and			no change	

MSM Manufacturing	Training Package R2.0	MSM Manufacturing	Training Package R3.0		
Code	Title	Code	Title	comment	E/N*
	apply safe practices at work				
MSMPCII295	Operate manufacturing equipment			no change	
MSMPCII296	Make a small furniture item from timber			no change	
MSMPCII297	Make an object from cloth using an existing pattern			no change	
MSMPCII298	Make an object from metal			no change	
MSMPCII299	Make an object from plastic			no change	
MSMPER200	Work in accordance with an issued permit			no change	
MSMPER201	Monitor and control work permits			no change	
MSMPER202	Observe permit work			no change	
MSMPER205	Enter confined space			no change	
MSMPER300	Issue work permits			no change	
MSMPER400	Coordinate permit process			no change	
	p. cooc	MSMPMC200	Organise self	new	
			Produce structural	new	
		MSMPMC300	precast concrete		
		MSMPMC301	Store materials for production	new	
			Operate equipment to blend/mix	new	
		MSMPMC302	materials Operate grinding	new	
		MSMPMC303	equipment		
		MSMPMC304	Prepare for production	new	
		MSMPMC305	Heat accelerate the curing of precast concrete	new	
		MSMPMC306	Operate crushing equipment	new	
		MSMPMC307	Operate a calcining kiln	new	
		MSMPMC308	Operate slip casting equipment	new	
		MSMPMC309	Finish products after firing	new	
		MSMPMC310	Hand mould products	new	
		MSMPMC311	Operate a firing kiln	new	
			Operate glass finishing	new	
		MSMPMC312	equipment Schedule, cut and	new	
		MSMPMC313	bend		

MSM Manufacturing	Training Package R2.0	MSM Manufacturing	Training Package R3.0		
Code	Title	Code	Title	comment	E/N*
			reinforcement		
			Finish green	new	
		MSMPMC314	concrete products		
			Cast moulded	new	
		MSMPMC315	concrete products		
			Finish cured	new	
		MSMPMC316	concrete products		
			Conduct benching	new	
		MSMPMC317	operations		
			Assemble, fabricate	new	
			and place		
		MSMPMC318	reinforcement		
		NACNADNAC 340	Finish casting	new	
		MSMPMC319	operation		
		NACNADNACCCO	Demould concrete	new	
		MSMPMC320 MSMPMC321	products Batch mix concrete	2011	
		IVISIVIPIVIC321		new	
		MSMPMC322	Deliver concrete to	new	
		MSMPMC323	Site Propage applied	now	
			Prepare asphalt	new	
		MSMPMC324	Move materials Operate bulk	new	
			materials handling	new	
		MSMPMC325	equipment		
		IVISIVII IVICSZS	Deliver customer	new	
		MSMPMC326	service	liew	
		Wisivii Weszo	Allocate and	new	
			complete team	lie.	
		MSMPMC327	tasks		
			Prepare for and	new	
			apply shotcrete for		
		MSMPMC328	installation		
			Prepare moulds	new	
		MSMPMC329	and dies		
			Produce	new	
			architectural		
		MSMPMC330	precast concrete		
			Carry out stock	new	
		MSMPMC400	control		
			Set up and tune a	new	
		MSMPMC401	process		
			Process raw meal	new	
		MSMPMC402	into product		
			Set up and optimise	new	
		NACNADNACA02	glass forming		
NACNADV210	Fit recreational vehicle	MSMPMC403	process	no chara-	
MSMRV310	floor			no change	
MSMRV311	Fit furniture in a			no change	
	recreational vehicle				
MSMRV312	Fit water systems in a recreational vehicle			no change	
MSMRV313	Fit 12 V cable systems			no change	

MSM Manufacturing	Training Package R2.0	MSM Manufacturing	Training Package R3.0		
Code	Title	Code	Title	comment	E/N*
	in a recreational vehicle				
MSMRV314	Construct and fit roof to a recreational vehicle			no change	
MSMRV315	Construct and fit slide out in a recreational vehicle			no change	
MSMRV316	Fit appliances in a recreational vehicle			no change	
MSMRV317	Install solar equipment on a recreational vehicle			no change	
MSMRV318	Fit cladding to a recreational vehicle			no change	
MSMRV319	Fit front and rear moulds to a recreational vehicle			no change	
MSMRV320	Fit windows and doors to a recreational vehicle			no change	
MSMRV321	Fit required external items to a recreational vehicle			no change	
MSMRV322	Fit required external electrical components to a recreational vehicle			no change	
MSMRV323	Fit required internal items to a recreational vehicle			no change	
MSMRV324	Conduct final quality inspection for a recreational vehicle			no change	
MSMRV325	Fabricate a chassis and suspension for a recreational vehicle			no change	
MSMRV350	Remove and replace a recreational vehicle roof			no change	
MSMRV351	Remove and replace a recreational vehicle floor			no change	
MSMRV352	Remove and replace a recreational vehicle sidewall cladding			no change	
MSMRV353	Remove and replace a recreational vehicle shower cubicle			no change	
MSMRV354	Remove and replace a recreational vehicle shower walls			no change	
MSMRV355	Remove and replace a			no change	

MSM Manufacturing	Training Package R2.0	MSM Manufacturing	Training Package R3.0		
Code	Title	Code	Title	comment	E/N*
	camper/pop-top roof				
MSMRV356	Remove and replace			no change	
	gas struts and roof				
	lifting equipment on a				
	recreational vehicle				
MSMRV357	Remove and replace			no change	
	external components				
	of a recreational				
	vehicle				
MSMRV358	Modify the body of a			no change	
	recreational vehicle				
MSMRV359	Install additional			no change	
	appliances in a			ine emange	
	recreational vehicle				
MSMRV360	Service camper wind			no change	
	up systems				
MSMRV361	Repair dry rot in a			no change	
	recreational vehicle				
MSMRV362	Install and repair			no change	
	battery systems in a			ine emange	
	recreational vehicle				
MSMRV363	Complete pre-delivery			no change	
	check of a recreational			no change	
	vehicle				
MSMRV364	Handover a			no change	
10131011110304	recreational vehicle to			no change	
	a customer				
MSMRV365	Remove and refit body			no change	
WISIVIIIV	moulding			no change	
MSMRV366	Fit transfers and decals			no change	
WISIVIIIV	to a recreational			no change	
	vehicle				
MSMRVG201	Tow a recreational			no change	
WISIVIIIVGZGI	vehicle safely			110 change	
MSMRVS202	Repair/service LP gas			no change	
WISIVIIIVSZOZ	systems in a			no change	
	recreational vehicle				
MSMRVS401	Assess and quote to			no change	
WISIVIIIVSTOI	service a recreational			110 Change	
	vehicle				
MSMRVT201	Apply technical			no change	
IVISIVII(V 1201	knowledge of			110 Change	
	recreational vehicle				
	manufacturing to work				
	activities				
MSMSUP100	Apply workplace			no change	
IAIDIAIDOL TOO	procedures			ilo change	
MSMSUP101	Clean workplace or			no change	
INIONIONALINI	· ·			no change	
NACNACI IDAGO	equipment Communicate in the			ne sh	
MSMSUP102	Communicate in the			no change	
NACNACI IDA OC	workplace				
MSMSUP106	Work in a team			no change	
MSMSUP200	Achieve work			no change	

MSM Manufacturing	Training Package R2.0	MSM Manufacturing	Training Package R3.0		
Code	Title	Code	Title	comment	E/N*
	outcomes				
MSMSUP204	Pack products or			no change	
	materials				
MSMSUP205	Transfer loads			no change	
MSMSUP210	Process and record			no change	
	information				
MSMSUP230	Monitor process			no change	
	operations				
MSMSUP240	Undertake minor			no change	
1113111301 240	maintenance			110 change	
MSMSUP273	Handle goods			no change	
MSMSUP280	Manage conflict at			no change	
1413141301 200	work			no change	
MSMSUP291	Participate in			no change	
1413141301 231	continuous			110 change	
	improvement				
MSMSUP292	Sample and test			no change	
IVISIVISOF 292	materials and product			no change	
MSMSUP292	Sample and test			no change	
IVISIVISUPZ9Z	materials and product			no change	
NACNACLIDADO	-				
MSMSUP300	Identify and apply			no change	
NACNACLIDADA	process improvements				
MSMSUP301	Apply HACCP to the			no change	
	workplace				
MSMSUP303	Identify equipment			no change	
	faults				
MSMSUP309	Maintain and organise			no change	
	workplace records				
MSMSUP310	Contribute to the			no change	
	development of				
	workplace				
	documentation				
MSMSUP330	Develop and adjust a			no change	
	production schedule				
MSMSUP382	Provide			no change	
	coaching/mentoring in				
	the workplace				
MSMSUP383	Facilitate a team			no change	
MSMSUP390	Use structured			no change	
	problem-solving tools				
MSMSUP400	Develop and monitor			no change	
	quality systems				
MSMSUP404	Coordinate			no change	
	maintenance				
MSMSUP405	Identify problems in			no change	
	fluid power system				
MSMSUP406	Identify faults in			no change	
	electronic control				
MSMTMINS301	Inspect a range of			no change	
	simple measures				
MSMTMINS302	Inspect a range of			no change	
THE THINKS SUL	simple measuring			no change	
	instruments				
	straments	1	I .		

MSM Manufacturing	Training Package R2.0	MSM Manufacturing	Training Package R3.0		
Code	Title	Code	Title	comment	E/N*
MSMTMINS401	Inspect a range of weighing instruments			no change	
MSMTMINS402	Inspect liquid			no change	
1013101110111103402	measuring instruments			no change	
	using volume				
	measures				
MSMTMINS403	Inspect a range of			no change	
	trading practices			s.i.a.i.ge	
MSMTMINS404	Inspect a range of pre-			no change	
	packaged products				
MSMTMINS501	Inspect a range of			no change	
	complex measuring				
	instruments				
MSMTMREF301	Use and maintain			no change	
	reference standards				
MSMTMVER301	Verify simple measures			no change	
MSMTMVER302	Verify simple			no change	
	measuring instruments				
MSMTMVER401	Verify weighing			no change	
	instruments				
MSMTMVER402	Verify liquid measuring			no change	
	instruments using				
	volume measures				
MSMTMVER403	Verify inspector's class			no change	
NACNATNA VEDECA	reference standards				
MSMTMVER501	Verify complex			no change	
MSMWHS100	measuring instruments Follow WHS			no shanga	
INIZINIAN LIZIOO	procedures			no change	
MSMWHS110	Follow emergency			no change	
MISIMIMALISTIO	response procedures			no change	
MSMWHS200	Work safely			no change	
MSMWHS201	Conduct hazard			no change	
141314144113201	analysis			no change	
MSMWHS205	Control minor			no change	
	incidents				
MSMWHS210	Undertake first			no change	
	response to non-fire				
	incidents				
MSMWHS212	Undertake first			no change	
	response to fire				
	incidents				
MSMWHS216	Operate breathing			no change	
	apparatus				
MSMWHS217	Gas test atmospheres			no change	
MSMWHS218	Control the risks of falls			no change	
MSMWHS300	Facilitate the			no change	
	implementation of			Silange	
	WHS for a work group				
MSMWHS400	Contribute to WHS			no change	
	management system				
MSMWHS401	Assess risk			no change	

MSM Manufacturing	Training Package R2.0	MSM Manufacturing	Training Package R3.0		
Code	Title	Code	Title	comment	E/N*
MSMWHS503	Maintain WHS			no change	
	management system				
MSMWHS510	Manage risk			no change	
MSMWHS601	Develop WHS			no change	
	management system				
MSMWJ201	Use high pressure			no change	
	water jetting				
	equipment				
MSMWJ301	Operate a high			no change	
	pressure water jetting				
	system				
MSMWJ302	Operate a drain			no change	
	cleaning draining				
	system				
MSMWJ303	Operate a vacuum			no change	
	loading system				

Manufacturing Technology Units of Competency

The following units of competency remain current in MSA07 Manufacturing Training Package

MSATCM301A	Test the mechanical properties of materials
MSATCM302A	Monitor ferrous melting and casting processes
MSATCM303A	Monitor non-ferrous melting and casting processes
MSATCM304A	Interpret basic binary phase diagrams
MSATCM305A	Demonstrate basic knowledge of casting operations
MSATCM401A	Prepare and examine metallographic samples
MSATCM402A	Monitor and test sands, cores and moulds
MSATCM403A	Evaluate mould design and gating
MSATCM404A	Undertake and interpret results of chemical analysis on metal samples
MSATCM405A	Determine and supervise heat treatment of metal
MSATCM406A	Apply basic chemical principles to metallurgy
MSATCM501A	Calculate and predict chemical outcomes in metallurgical situations
MSATCM502A	Identify and describe equipment for mineral and chemical processing plants
MSATCM503A	Recommend a refractory for an application
MSATCM504A	Select metal forming process
MSATCM505A	Select metal joining process
MSATCM506A	Monitor blast furnace operations
MSATCM507A	Monitor primary steel making process
MSATCM508A	Monitor secondary steelmaking operations
MSATCM509A	Recommend ferrous and non ferrous metals or alloys for an application
MSATCM510A	Apply metallurgical principles and techniques in welding and other thermal processes
MSATCM511A	Apply metallurgy principles and practice to determine metal forming and shaping processes
MSATCM512A	Apply metallurgy principles and practice to optimise furnace operation
MSATCM513A	Plan and complete metallurgical projects
MSATCM514A	Select surface treatment methods for metallic components or products
MSATCM515A	Analyse metallurgical failures of components and recommend preventative measures
MSATCM516A	Select non metallic materials for engineering applications
MSATCM517A	Determine corrosion prevention strategies for metal and alloys
MSATCM518A	Interpret complex binary phase diagrams
MSATCS301A	Interpret architectural and engineering design specifications for structural steel detailing
MSATCS302A	Detail bolts and welds for structural steelwork connections
MSATCS501A	Detail standardised structural connections
MSATCS502A	Detail structural steel members
MSATCS503A	Incorporate structural steel detailing into fabrication and construction project management
MSATCS504A	Detail ancillary steelwork