

MSA07 MANUFACTURING TRAINING PACKAGE

Versions 8.1 to 8.4

WA NOMINAL HOURS GUIDE

Introduction

This Guide has been generated to enable the stakeholders in this Industry in Western Australia to participate in the managed implementation of the National MSA07 Manufacturing Training Package.

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

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

Version 8.4 of the MSA07 Manufacturing Training Package was released by Training.Gov.Au (TGA) on the 27/8/14.

Version 8.3 of the MSA07 Manufacturing Training Package was released by Training.Gov.Au (TGA) on the 11/2/14.

Version 8.2 of the MSA07 Manufacturing Training Package was released by Training.Gov.Au (TGA) on the 5/4/13.

Version 8.1 of the MSA07 Manufacturing Training Package was released by Training.Gov.Au (TGA) on the 11/10/12.

Transition Arrangements

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

Nominal Hours

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

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

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

Contact Details

For Training Package content information, please contact:

Training Curriculum Services

Tel: (08) 6551 5541

Email: trainingpackages@dtwd.wa.gov.au

Qualifications and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in version 8.4 of the MSA07 Manufacturing Training Package.

National Code	National Title	Nominal Hours
MSA10107	Certificate I in Manufacturing (Pathways)	270
MSA10207	Certificate I in Process Manufacturing	288
MSA20107	Certificate II in Process Manufacturing	427
MSA20208	Certificate II in Manufacturing Technology	356
MSA20510	Certificate II in Recreational Vehicle Service and Repair	331
MSA20610	Certificate II in Recreational Vehicle Manufacture	372
MSA30107	Certificate III in Process Manufacturing	558
MSA30208	Certificate III in Manufacturing Technology	390
MSA30309	Certificate III in Surface Preparation and Coating Application	731
MSA30510	Certificate III in Recreational Vehicle Service and Repair	447
MSA30610	Certificate III in Recreational Vehicle Manufacture	516
MSA30710	Certificate III in Recreational Vehicle and Accessories Retailing	520
MSA40108	Certificate IV in Manufacturing Technology	526
MSA40311	Certificate IV in Process Manufacturing	910
MSA40510	Certificate IV in Recreational Vehicles	744
MSA40710	Certificate IV in Recreational Vehicle and Accessories Retailing	823
MSA50108	Diploma of Manufacturing Technology	778
MSA50311	Diploma of Production Management	496
MSA50510	Diploma of Recreational Vehicles	286
MSA60108	Advanced Diploma of Manufacturing Technology	1320

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in version 8.4 of the MSA07 Manufacturing Training Package.

National Code	National Title	Nominal Hours
MSABLIC001	License to operate a standard boiler	40
MSABLIC002	License to operate and advanced boiler	60
MSAENV272B	Participate in environmentally sustainable work practices	20
MSAENV472B	Implement and monitor environmentally sustainable work practices	40
MSAENV672B	Develop workplace policy and procedures for environmental sustainability	50
MSAPCI101A	Adapt to work in industry	18
MSAPCI102A	Apply effective work practices	18
MSAPCI103A	Demonstrate care and apply safe practices at work	18
MSAPCII295A	Operate manufacturing equipment	40
MSAPCII296A	Make a small furniture item from timber	40
MSAPCII297A	Make an object from cloth using an existing pattern	40
MSAPCII298A	Make an object from metal	40
MSAPCII299A	Make an object from plastic	40
MSAPMOHS100A	Follow OHS procedures	26
MSAPMOHS110A	Follow emergency response procedures	26
MSAPMOHS200A	Work safely	26
MSAPMOHS205A	Control minor incidents	26
MSAPMOHS210B	Undertake first response to non-fire incidents	26
MSAPMOHS212A	Undertake first response to fire incidents	26
MSAPMOHS216A	Operate breathing apparatus	20
MSAPMOHS217A	Gas test atmospheres	30
MSAPMOHS220A	Provide initial First Aid response	30
MSAPMOHS300A	Facilitate the implementation of OHS for a work group	40
MSAPMOHS400A	Contribute to OHS management system	60
MSAPMOHS401A	Assess risk	60
MSAPMOHS503A	Maintain the workplace OHS management system	50
MSAPMOHS510A	Manage risk	50
MSAPMOHS601A	Establish workplace OHS management system	60
MSAPMOPS100A	Use equipment	30
MSAPMOPS101A	Make measurements	20
MSAPMOPS102A	Perform tasks to support production	30
MSAPMOPS200A	Operate equipment	40
MSAPMOPS201A	Cut polymer materials	20
MSAPMOPS202A	Fabricate polymer materials	40
MSAPMOPS212A	Use organisation computers or data systems	26
MSAPMOPS244A	Layout and cut materials	30
MSAPMOPS301A	Treat corrosion	20
MSAPMOPS363A	Organise on site work	30
MSAPMOPS400A	Optimise process-plant area	60
MSAPMOPS401A	Trial new process or product	26
MSAPMOPS404A	Co-ordinate maintenance	26
MSAPMOPS405A	Identify problems in fluid power system	40
MSAPMOPS406A	Identify problems in electronic control systems	40
MSAPMOPS601A	Design equipment and system modifications	70
MSAPMPER200C	Work in accordance with an issued permit	20
MSAPMPER201A	Monitor and control work permits	20
MSAPMPER202A	Observe permit work	20
MSAPMPER205B	Enter confined space	30
MSAPMPER205C	Enter confined space	30
MSAPMPER300C	Issue work permits	20
MSAPMPER302A	Issue work permits (hot work/confined space)	20
MSAPMPER400A	Coordinate permit process	30
MSAPMSUP100A	Apply workplace procedures	26
MSAPMSUP101A	Clean workplace or equipment	26
MSAPMSUP102A	Communicate in the workplace	26

National Code	National Title	Nominal Hours
MSAPMSUP106A	Work in a team	26
MSAPMSUP172A	Identify and minimise environmental hazards	20
MSAPMSUP200A	Achieve work outcomes	52
MSAPMSUP201A	Receive or despatch goods	26
MSAPMSUP204A	Pack products or materials	26
MSAPMSUP205A	Transfer loads	26
MSAPMSUP210A	Process and record information	13
MSAPMSUP230A	Monitor process operations	26
MSAPMSUP240A	Undertake minor maintenance	26
MSAPMSUP273A	Handle goods	30
MSAPMSUP280A	Manage conflict at work	20
MSAPMSUP291A	Participate in continuous improvement	26
MSAPMSUP292A	Sample and test materials and product	40
MSAPMSUP300A	Identify and implement opportunities to maximise production efficiencies	40
MSAPMSUP301A	Apply HACCP to the workplace	30
MSAPMSUP303A	Identify equipment faults	26
MSAPMSUP309A	Maintain and organise workplace records	26
MSAPMSUP310A	Contribute to the development of plant documentation	30
MSAPMSUP330A	Develop and adjust a production schedule	30
MSAPMSUP382A	Provide coaching/mentoring in the workplace	40
MSAPMSUP383A	Facilitate a team	20
MSAPMSUP390A	Use structured problem solving tools	40
MSAPMSUP400A	Develop and monitor quality systems	50
MSAPMWJ201A	Use high pressure water jetting equipment	55
MSAPMWJ301A	Operate a high pressure water jetting system	55
MSAPROD244A	Layout and cut materials	20
MSARVG201A	Tow a recreational vehicle safely	10
MSARVS201A	Install LP gas systems in a recreational vehicle	95
MSARVS202A	Repair/service LP gas systems in a recreational vehicle	25
MSARVS301A	Develop and update caravan industry knowledge	20
MSARVS401A	Assess and quote to service a recreational vehicle	35
MSARVT201A	Apply technical knowledge of recreational vehicle manufacturing to work activities	20
MSATCM301A	Test the mechanical properties of materials	30
MSATCM302A	Monitor ferrous melting and casting processes	30
MSATCM303A	Monitor non-ferrous melting and casting processes	20
MSATCM304A	Interpret basic binary phase diagrams	20
MSATCM305A	Demonstrate basic knowledge of casting operations	30
MSATCM401A	Prepare and examine metallographic samples	40
MSATCM402A	Monitor and test sands, cores and moulds	40
MSATCM403A	Evaluate mould design and gating	40
MSATCM404A	Undertake and interpret results of chemical analysis on metal samples	50
MSATCM405A	Determine and supervise heat treatment of metal	40
MSATCM406A	Apply basic chemical principles to metallurgy	60
MSATCM501A	Calculate and predict chemical outcomes in metallurgical situations	40
MSATCM502A	Identify and describe equipment for mineral and chemical processing plants	40
MSATCM503A	Recommend a refractory for an application	40
MSATCM504A	Select metal forming process	50
MSATCM505A	Select metal joining process	50
MSATCM506A	Monitor blast furnace operations	50
MSATCM507A	Monitor primary steel making process	50
MSATCM508A	Monitor secondary steelmaking operations	50
MSATCM509A	Recommend ferrous and non ferrous metals or alloys for an application	50
MSATCM510A	Apply metallurgical principles and techniques in welding and other thermal processes	60
MSATCM511A	Apply metallurgy principles and practice to determine metal forming and shaping processes	60
MSATCM512A	Apply metallurgy principles and practice to optimise furnace operation	60
MSATCM513A	Plan and complete metallurgical projects	40
MSATCM514A	Select surface treatment methods for metallic components or products	40
MSATCM515A	Analyse metallurgical failures of components and recommend preventative	60

National Code	National Title	Nominal Hours
	measures	
MSATCM516A	Select non metallic materials for engineering applications	60
MSATCM517A	Determine corrosion prevention strategies for metal and alloys	60
MSATCM518A	Interpret complex binary phase diagrams	40
MSATCS301A	Interpret architectural and engineering design specifications for structural steel detailing	35
MSATCS302A	Detail bolts and welds for structural steelwork connections	15
MSATCS501A	Detail standardised structural connections	50

Mapping Qualifications

The following table provides an overview of the qualifications from **versions 8.1 to 8.4** which replace qualifications from version 8 of the MSA07 Manufacturing Training Package.

v8 Current Qualification			v8.1 to 8.4 Replacement Qualification		
National Code	National Title	Nominal hours	National Code	National Title	Nominal hours
MSA21108	Certificate II in Competitive Manufacturing	326		Qualification removed from this training package and replaced in MSS11.	
MSA31108	Certificate III in Competitive Manufacturing	370		Qualification removed from this training package and replaced in MSS11.	
MSA41108	Certificate IV in Competitive Manufacturing	490		Qualification removed from this training package and replaced in MSS11.	
MSA51108	Diploma of Competitive Manufacturing	1090		Qualification removed from this training package and replaced in MSS11.	
MSA61108	Advanced Diploma of Competitive Manufacturing	1670		Qualification removed from this training package and replaced in MSS11.	
MSA71109	Vocational Graduate Certificate in Competitive Manufacturing	280		Qualification removed from this training package and replaced in MSS11.	
MSA81109	Vocational Graduate Diploma of Competitive Manufacturing	530		Qualification removed from this training package and replaced in MSS11.	

Mapping Units of Competency

The following table provides an overview of the units from the **versions 8.1 to 8.4** which replace units from version 8 of the MSA07 Manufacturing Training Package.

v8 Current Unit			v 8.1 to 8.4 Replacement Unit		
National Code	National Title	Nominal Hours	National Code	National Title	Nominal hours
MSACMC210A	Manage the impact of change on own work	40		Unit removed from this training package and replaced in MSS11.	
MSACMC410A	Lead change in a manufacturing environment	50		Unit removed from this training package and replaced in MSS11.	
MSACMC411A	Lead a competitive manufacturing team	40		Unit removed from this training package and replaced in MSS11.	
MSACMC413A	Lead team culture improvement	40		Unit removed from this training package and replaced in MSS11.	
MSACMC610A	Manage relationships with non-customer external organisations	60		Unit removed from this training package and replaced in MSS11.	
MSACMC611A	Manage people relationships	60		Unit removed from this training package and replaced in MSS11.	
MSACMC612A	Manage workplace learning	60		Unit removed from this training package and replaced in MSS11.	
MSACMC613A	Facilitate holistic culture improvement in a manufacturing enterprise	60		Unit removed from this training package and replaced in MSS11.	
MSACMC614A	Develop a communications strategy to support production	50		Unit removed from this training package and replaced in MSS11.	
MSACMG700A	Review continuous improvement processes	70		Unit removed from this training package and replaced in MSS11.	
MSACMG701A	Prepare for and implement change	70		Unit removed from this training package and replaced in MSS11.	
MSACMG702A	Review manufacturing practice tools and techniques	70		Unit removed from this training package and replaced in MSS11.	
MSACMG703A	Analyse process changes	70		Unit removed from this training package and replaced in MSS11.	
MSACMG704A	Facilitate improvements in the internal value chain	70		Unit removed from this training package and replaced in MSS11.	
MSACMG705A	Undertake a qualitative review of a process change	70		Unit removed from this training package and replaced in MSS11.	
MSACMG706A	Build relationships between teams in a manufacturing environment	70		Unit removed from this training package and replaced in MSS11.	

v8 Current Unit			v 8.1 to 8.4 Replacement Unit		
National Code	National Title	Nominal Hours	National Code	National Title	Nominal hours
MSACMG707A	Respond to a major non-conformance	70		Unit removed from this training package and replaced in MSS11.	
MSACMG708A	Capture learning from daily activities in a manufacturing organisation	70		Unit removed from this training package and replaced in MSS11.	
MSACMG709A	Facilitate improvements in the external value chain	70		Unit removed from this training package and replaced in MSS11.	
MSACMG710A	Improve visual management in the workplace	70		Unit removed from this training package and replaced in MSS11.	
MSACMG711A	Manage benchmarking studies	70		Unit removed from this training package and replaced in MSS11.	
MSACMG712A	Lead a problem solving process to determine and solve root cause	70		Unit removed from this training package and replaced in MSS11.	
MSACMG800A	Analyse data for relevance to organisational learning	70		Unit removed from this training package and replaced in MSS11.	
MSACMG801A	Develop the competitive manufacturing approach	70		Unit removed from this training package and replaced in MSS11.	
MSACMG802A	Audit the use of competitive tools	70		Unit removed from this training package and replaced in MSS11.	
MSACMG803A	Develop models of future state manufacturing practice	70		Unit removed from this training package and replaced in MSS11.	
MSACMG804A	Develop the value chain	70		Unit removed from this training package and replaced in MSS11.	
MSACMG805A	Develop the learning processes of the manufacturing organisation	70		Unit removed from this training package and replaced in MSS11.	
MSACMG806A	Develop and refine systems for continuous improvement in manufacturing organisations	70		Unit removed from this training package and replaced in MSS11.	
MSACMG807A	Develop problem solving capability of a manufacturing organisation	70		Unit removed from this training package and replaced in MSS11.	
MSACMS200A	Apply competitive manufacturing practices	40		Unit removed from this training package and replaced in MSS11.	
MSACMS201A	Sustain process improvements	40		Unit removed from this training package and replaced in MSS11.	
MSACMS400A	Implement a competitive manufacturing system	50		Unit removed from this training package and replaced in MSS11.	
MSACMS401A	Ensure process improvements are sustained	50		Unit removed from this training package and replaced in MSS11.	

v8 Current Unit			v 8.1 to 8.4 Replacement Unit		
National Code	National Title	Nominal Hours	National Code	National Title	Nominal hours
MSACMS405A	Lead a manufacturing team using a balanced score card approach	40		Unit removed from this training package and replaced in MSS11.	
MSACMS600A	Develop a competitive manufacturing system	60		Unit removed from this training package and replaced in MSS11.	
MSACMS601A	Analyse and map a value chain	60		Unit removed from this training package and replaced in MSS11.	
MSACMS602A	Manage a value chain	60		Unit removed from this training package and replaced in MSS11.	
MSACMS603A	Develop manufacturing related business plans	60		Unit removed from this training package and replaced in MSS11.	
MSACMS604A	Manage competitive manufacturing processes in a jobbing shop environment	60		Unit removed from this training package and replaced in MSS11.	
MSACMS605A	Develop a Balanced Scorecard for use in competitive manufacturing	40		Unit removed from this training package and replaced in MSS11.	
MSACMS606A	Introduce competitive manufacturing to a small or medium enterprise	60		Unit removed from this training package and replaced in MSS11.	
MSACMT220A	Apply quick changeover procedures	30		Unit removed from this training package and replaced in MSS11.	
MSACMT221A	Apply Just in Time (JIT) procedures	30		Unit removed from this training package and replaced in MSS11.	
MSACMT230A	Apply cost factors to work practices	35		Unit removed from this training package and replaced in MSS11.	
MSACMT231A	Interpret product costs in terms of customer requirements	30		Unit removed from this training package and replaced in MSS11.	
MSACMT240A	Apply 5S procedures in a manufacturing environment	30		Unit removed from this training package and replaced in MSS11.	
MSACMT250A	Monitor process capability	30		Unit removed from this training package and replaced in MSS11.	
MSACMT251A	Apply quality standards	30		Unit removed from this training package and replaced in MSS11.	
MSACMT260A	Use planning software systems in manufacturing	30		Unit removed from this training package and replaced in MSS11.	
MSACMT261A	Use SCADA systems in manufacturing	30		Unit removed from this training package and replaced in MSS11.	
MSACMT270A	Use sustainable energy practices	30		Unit removed from this training package and replaced in MSS11.	

v8 Current Unit			v 8.1 to 8.4 Replacement Unit		
National Code	National Title	Nominal Hours	National Code	National Title	Nominal hours
MSACMT271A	Use sustainable environmental practices	30		Unit removed from this training package and replaced in MSS11.	
MSACMT280A	Undertake root cause analysis	30		Unit removed from this training package and replaced in MSS11.	
MSACMT281A	Contribute to the application of a proactive maintenance strategy	30		Unit removed from this training package and replaced in MSS11.	
MSACMT421A	Facilitate a Just in Time (JIT) system	50		Unit removed from this training package and replaced in MSS11.	
MSACMT423A	Monitor a manufacturing levelled pull system	50		Unit removed from this training package and replaced in MSS11.	
MSACMT430A	Improve cost factors in work practices	50		Unit removed from this training package and replaced in MSS11.	
MSACMT432A	Analyse manual handling processes	50		Unit removed from this training package and replaced in MSS11.	
MSACMT440A	Lead 5S in a manufacturing environment	50		Unit removed from this training package and replaced in MSS11.	
MSACMT441A	Facilitate continuous improvement in manufacturing	40		Unit removed from this training package and replaced in MSS11.	
MSACMT450A	Undertake process capability improvements	50		Unit removed from this training package and replaced in MSS11.	
MSACMT451A	Mistake proof a production process	50		Unit removed from this training package and replaced in MSS11.	
MSACMT452A	Apply statistics to processes in manufacturing	40		Unit removed from this training package and replaced in MSS11.	
MSACMT453A	Use six sigma techniques	40		Unit removed from this training package and replaced in MSS11.	
MSACMT460A	Facilitate the use of planning software systems in manufacturing	50		Unit removed from this training package and replaced in MSS11.	
MSACMT461A	Facilitate SCADA systems in a manufacturing team or work area	50		Unit removed from this training package and replaced in MSS11.	
MSACMT481A	Undertake proactive maintenance analyses	50		Unit removed from this training package and replaced in MSS11.	
MSACMT482A	Assist in implementing a proactive maintenance strategy	50		Unit removed from this training package and replaced in MSS11.	
MSACMT483A	Support proactive maintenance	50		Unit removed from this training package and replaced in MSS11.	

v8 Current Unit			v 8.1 to 8.4 Replacement Unit		
National Code	National Title	Nominal Hours	National Code	National Title	Nominal hours
MSACMT620A	Develop quick changeover procedures	60		Unit removed from this training package and replaced in MSS11.	
MSACMT621A	Develop a Just in Time (JIT) system	60		Unit removed from this training package and replaced in MSS11.	
MSACMT622A	Design a process layout	80		Unit removed from this training package and replaced in MSS11.	
MSACMT623A	Develop a levelled pull system of manufacturing	60		Unit removed from this training package and replaced in MSS11.	
MSACMT630A	Optimise cost of product	60		Unit removed from this training package and replaced in MSS11.	
MSACMT631A	Undertake value analysis of product costs in terms of customer requirements	60		Unit removed from this training package and replaced in MSS11.	
MSACMT632A	Analyse cost implications of maintenance strategy	60		Unit removed from this training package and replaced in MSS11.	
MSACMT640A	Manage 5S system in a manufacturing environment	60		Unit removed from this training package and replaced in MSS11.	
MSACMT641A	Implement a continuous improvement system	60		Unit removed from this training package and replaced in MSS11.	
MSACMT650A	Determine and improve process capability	60		Unit removed from this training package and replaced in MSS11.	
MSACMT652A	Design an experiment	80		Unit removed from this training package and replaced in MSS11.	
MSACMT653A	Apply six sigma to process control and improvement	60		Unit removed from this training package and replaced in MSS11.	
MSACMT660A	Develop the application of enterprise systems in manufacturing	60		Unit removed from this training package and replaced in MSS11.	
MSACMT661A	Determine and establish information collection requirements and processes	60		Unit removed from this training package and replaced in MSS11.	
MSACMT662A	Develop a documentation control strategy for a manufacturing enterprise	60		Unit removed from this training package and replaced in MSS11.	
MSACMT670A	Develop and manage sustainable energy practices	60		Unit removed from this training package and replaced in MSS11.	
MSACMT671A	Develop and manage sustainable environmental practices	60		Unit removed from this training package and replaced in MSS11.	
MSACMT675A	Facilitate the development of a new product	60		Unit removed from this training package and replaced in MSS11.	

v8 Current Unit			v 8.1 to 8.4 Replacement Unit		
National Code	National Title	Nominal Hours	National Code	National Title	Nominal hours
MSACMT681A	Develop proactive maintenance strategy	60		Unit removed from this training package and replaced in MSS11.	
MSACMT682A	Adapt a proactive maintenance strategy to the process manufacturing sector	60		Unit removed from this training package and replaced in MSS11.	
MSACMT683A	Adapt a proactive maintenance strategy for a seasonal or cyclical manufacturing operation	60		Unit removed from this training package and replaced in MSS11.	