

# **MSA07 MANUFACTURING TRAINING PACKAGE**

**Version 8**

## **WA NOMINAL HOURS GUIDE**

**Western Australian Department of Training and Workforce  
Development**

**June 2012**

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## Introduction

This Implementation Guide has been generated to enable the stakeholders in the Manufacturing Industry in Western Australia to participate in the managed implementation of the National MSA07 Manufacturing Training Package Version 8.

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

The MSA07 Manufacturing Training Package **Version 8** was released by Training.Gov.Au (TGA) on the **8 May 2012**.

## Obtaining the Training Package

The MSA07 Manufacturing Training Package can be purchased from:



Office: Level 8, 80 Arthur Street  
North Sydney NSW 2060  
Postal: PO Box 289  
North Sydney NSW 2059  
T: 1800 358 458 | F: (02) 9955 8044  
E: [info@mskills.com.au](mailto:info@mskills.com.au)  
W: [www.mskills.com.au](http://www.mskills.com.au)

Information on National Training Packages is also available through Training.Gov (TGA), which can be located on the Internet at: [www.training.gov.au](http://www.training.gov.au)

**All RTOs who have Training Package qualifications on their Scope of Delivery must have access to the relevant Training Package.**

## Version Modification History

The version details of this endorsed Training Package are in the table below. The latest information is at the top of the table.

Version	Release Date	Modification History
8.0	8 June 2012	<p><b>Endorsed changes</b> Addition of two new units:</p> <ul style="list-style-type: none"> <li>• MSABLIC001 License to operate a standard boiler</li> <li>• MSABLIC002 License to operate and advanced boiler</li> </ul> <p><b>ISC upgrades</b></p> <ul style="list-style-type: none"> <li>• Inclusion of two boiler licensing Skill Sets</li> <li>• Inclusion of 59 units imported from MSS11v2</li> <li>• Competitive Manufacturing qualifications superseded by new Competitive Systems and Practices (endorsed in MSS11v2).</li> <li>• Competitive Manufacturing units of competency in other MSA qualifications replaced by Competitive Systems and Practices units imported from MSS11v2.</li> </ul>
7.0	November 2011	<p><b>Addition of two new qualifications:</b></p> <ul style="list-style-type: none"> <li>- MSA40311 Certificate IV in Process Manufacturing</li> <li>- MSA50311 Diploma of Production Management</li> </ul> <p>Inclusion of 51 additional; imported units.</p> <p>(Refer to mapping for details.)</p> <p><b>ISC upgrades include:</b></p> <ul style="list-style-type: none"> <li>- Addition of a Leading Hand/Supervisor Skill Set</li> <li>- Updating of imported units</li> <li>- Minor editorial changes</li> <li>- Imported units updated in relevant qualifications.</li> </ul>
6.0	April 2011	<p><b>Endorsed changes</b> Addition of eight new qualifications and six new units of competency for recreational vehicle manufacture, retailing, service and repair.</p> <p>Inclusion of an additional 82 imported units as electives for recreational vehicle qualifications.</p> <p>Two new units of competency for water jetting included as electives in MSA30309.</p> <p>One new unit of competency to replace a deleted imported unit.</p> <p><b>ISC upgrades</b> 11 qualifications adjusted for flexibility/sustainability requirements (refer to mapping for details)</p> <p>Minor edits to 5 MSAPM units (MSAPMOHS100A, OHS200A, OPS101A, OPS363A and SUP106A)</p> <p>Imported units updated and minor typographical errors corrected in mapping.</p> <p><b><i>Refer to Summary Mapping for details of changes to qualifications and units within the Training Package.</i></b></p>
5.1	July 2010	<p>ISC Update</p> <p>Eight qualifications adjusted to comply with flexibility rules:</p> <ul style="list-style-type: none"> <li>• MSA10107</li> <li>• MSA10207</li> <li>• MSA20107</li> </ul>

Version	Release Date	Modification History																						
		<ul style="list-style-type: none"> <li>• MSA21108</li> <li>• MSA30107</li> <li>• MSA30309</li> <li>• MSA31108</li> <li>• MSA41108</li> </ul> <p>Confined Space Entry units updated to comply with revised Australian Standard AS2685-2009:</p> <ul style="list-style-type: none"> <li>• MSAPMPER200C</li> <li>• MSAPMPER205C</li> <li>• MSAPMPER300C</li> </ul> <p>Sustainability units (MSAENV272B, MSAENV472B and MSAENV672B) updated to clarify terminology and to expand Range of Variables to better incorporate environmental sustainability</p> <p>PML04 units of competency updated to MSL09 units in:</p> <ul style="list-style-type: none"> <li>• MSA30208</li> <li>• MSA40108</li> <li>• MSA50108</li> <li>• MSA60108</li> </ul>																						
5	November 2009	<ul style="list-style-type: none"> <li>• One new qualification – MSA30309 Certificate III in Surface Preparation and Coating Application</li> <li>• Three new units of competency and an additional 35 imported units for inclusion in MSA07 aligned to the new certificate</li> <li>• Fourteen new units of competency and five Skill Sets for Trade Measurement (not aligned to any qualifications).</li> </ul> <p>Refer to History in the Training Package for details.</p> <ul style="list-style-type: none"> <li>• In addition, minor corrections have been made tot the Overview of Assessment Requirements in the Evidence Guide for two sustainability units: <ul style="list-style-type: none"> <li>○ MSAENV272A</li> <li>○ MSAENV472A</li> </ul> </li> </ul>																						
4	27 July 2009	<p>Includes two new qualifications:</p> <ul style="list-style-type: none"> <li>• MSA71109 Vocational Graduate Certificate in Competitive Manufacturing</li> <li>• MSA81109 Vocational Graduate Diploma of Competitive Manufacturing</li> </ul> <p>It also includes 21 new units of competency:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">MSACMG700A</td> <td style="width: 50%;">MSACMG701A</td> </tr> <tr> <td>MSACMG702A</td> <td>MSACMG703A</td> </tr> <tr> <td>MSACMG704A</td> <td>MSACMG705A</td> </tr> <tr> <td>MSACMG706A</td> <td>MSACMG707A</td> </tr> <tr> <td>MSACMG708A</td> <td>MSACMG709A</td> </tr> <tr> <td>MSACMG710A</td> <td>MSACMG711A</td> </tr> <tr> <td>MSACMG712A</td> <td>MSACMG800A</td> </tr> <tr> <td>MSACMG801A</td> <td>MSACMG802A</td> </tr> <tr> <td>MSACMG803A</td> <td>MSACMG804A</td> </tr> <tr> <td>MSACMG805A</td> <td>MSACMG806A</td> </tr> <tr> <td>MSACMG807A</td> <td></td> </tr> </table>	MSACMG700A	MSACMG701A	MSACMG702A	MSACMG703A	MSACMG704A	MSACMG705A	MSACMG706A	MSACMG707A	MSACMG708A	MSACMG709A	MSACMG710A	MSACMG711A	MSACMG712A	MSACMG800A	MSACMG801A	MSACMG802A	MSACMG803A	MSACMG804A	MSACMG805A	MSACMG806A	MSACMG807A	
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MSACMG805A	MSACMG806A																							
MSACMG807A																								
3.1	12 March 2009	<p>Includes six new units and the importation of an additional 10 MEM units for a new structural steel detailing stream in the following existing qualifications:</p>																						

Version	Release Date	Modification History
		<ul style="list-style-type: none"> <li>• MSA30208 Certificate III in Manufacturing Technology</li> <li>• MSA50108 Diploma of Manufacturing Technology</li> </ul> <p>Miscellaneous typographical errors have been corrected. Refer to the Training Package Modification History for details.</p>
3	19 August 2008	<p>MCM04 qualifications and units of competency recoded and placed in MSA07. Key Competencies have been replaced in Competitive Manufacturing units with Employability Skills.</p> <p>Two new pathways for metallurgy and polymer technology have been added to the existing Technology Cadetship qualifications, now coded MSA30208 and MSA40108.</p> <p>Two new Technology Cadetship qualifications:</p> <ul style="list-style-type: none"> <li>• MSA50108</li> <li>• MSA60108.</li> </ul> <p>Category 1 changes to following MSAPM units resulting from review of PMA08:</p> <ul style="list-style-type: none"> <li>• MSAPMPER200B</li> <li>• MSAPMPER205B</li> <li>• MSAPMPER300B</li> <li>• MSAPMOHS210B</li> </ul> <p>Two additional MSAPM units:</p> <ul style="list-style-type: none"> <li>• MSAPMPER202A</li> <li>• MSAPMPER400A.</li> </ul> <p>Deletion of MSAPM302A.</p> <p>Category 1 changes as a result of recoding of MCM units and changes to MSAPM units to:</p> <ul style="list-style-type: none"> <li>• MSA10107</li> <li>• MSA10207</li> <li>• MSA20107</li> <li>• MSA30107</li> </ul> <p>Additional Category 1 changes to MSA10107 to include updated versions of LMT and LMF units.</p>
2	16 November 2007	<p>Addition of three production support certificates and other generic units for use across the three process manufacturing Training Packages (PMA, PMB and PMC). This included the three new sustainability units.</p> <p>Units of Competency in MSA10107 Certificate I in Manufacturing (Pathways) updated with units from PMB07.</p>
1	April 2007	Initial release

## Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications within 12 months of the release date of the Training Package on to Training.gov (TGA).

Students currently enrolled in an existing version of the Training Package qualification should be permitted to complete the program they enrolled in initially, unless the move to the related qualification from a Training Package can be made without disadvantage to a student.

## Nominal Hours

The Commonwealth Department of Employment, Education and Workplace Relations' definition of nominal hours states:

***“The value assigned to a structured program of study that nominally represents the anticipated hours of supervised learning and/or training deemed necessary to conduct training/learning and assessment activities associated with the program of study”***

Source: National Quality Council Training Package Glossary Version V2.1 17/03/2010  
<http://www.deewr.gov.au/Skills/Overview/Policy/TPDH/Downloads/Documents/TrainingPackGlossary.pdf>

Nominal hours are identified for each Training Package qualification. Total nominal hours may vary within a qualification depending on the units of competency

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



## Qualifications and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the industry MSA07 Manufacturing Training Package Version 8.0

National ID	Training Package Unit 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 the industry MSA07 Manufacturing Training Package Version 8.

Please note: the new units for version 8 are in **RED**

National ID	Training Package Unit 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

National ID	Training Package Unit Title	Nominal Hours
MSAPMPER400A	Coordinate permit process	30
MSAPMSUP100A	Apply workplace procedures	26
MSAPMSUP101A	Clean workplace or equipment	26
MSAPMSUP102A	Communicate in the workplace	26
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

<b>National ID</b>	<b>Training Package Unit Title</b>	<b>Nominal Hours</b>
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 measures	60
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 Units of Competency

The following table provides an overview of the qualifications from the **Version 8** which replace qualifications from the existing version of the MSA07 Manufacturing Training Package.

Version 7			Version 8		
Code	Title	Nominal hour	Code	Title	Nominal hour
	No previous equivalent		MSABLIC001	License to operate a standard boiler	40
	No previous equivalent		MSABLIC002	License to operate and advanced boiler	60

## Mapping MSS11 Units of Competency

The following table provides an overview of the units of competency from the MSS11 Sustainability Training Package **Version 2** which replace units of competency from the MSA07 Manufacturing Training Package.

MSA07 Version 7			MSS11 Version 2		
Code	Title	Nominal hour	Code	Title	Nominal hour
MSACMC210A	Manage the impact of change on own work	40	MSS402010A	Manage the impact of change on own work	40
MSACMC410A	Lead change in a manufacturing environment	50	MSS403010A	Facilitate change in an organisation implementing competitive systems and practices	50
MSACMC411A	Lead a competitive manufacturing team	40	MSS403011A	Facilitate implementation of competitive systems and practices	40
MSACMC413A	Lead team culture improvement	40	MSS403013A	Lead team culture improvement	40
MSACMC610A	Manage relationships with non-customer external organisations	60	MSS405010A	Manage relationships with non-customer external organisations	60
MSACMC611A	Manage people relationships	60	MSS405011A	Manage people relationships	60
MSACMC612A	Manage workplace learning	60	MSA405012A	Manage workplace learning	60
MSACMC613A	Facilitate holistic culture improvement in a manufacturing enterprise	60	MSA405013A	Facilitate holistic culture improvement in an organisation	60
MSACMC614A	Develop a communications strategy to support production	50	MSS405014A	Develop a communications strategy to support operations	50
MSACMG700A	Review continuous improvement processes	70	MSS407013A	Review continuous improvement processes	70
MSACMG701A	Prepare for and implement change	70	MSS407001A	Prepare for and implement change	70
MSACMG702A	Review manufacturing practice tools and techniques	70	MSS407002A	Review operations practice tools and techniques	70
MSACMG703A	Analyse process changes	70	MSS407003A	Analyse process changes	70
MSACMG704A	Facilitate improvements in the internal value chain	70	MSS407004A	Facilitate improvements in the internal value chain	70
MSACMG705A	Undertake a qualitative review of a process change	70	MSS407005A	Undertake a qualitative review of a process change	70
MSACMG706A	Build relationships between teams in a manufacturing environment	70	MSS407006A	Build relationships between teams in an operations environment	70
MSACMG707A	Respond to a major non-conformance	70	MSS407007A	Respond to a major non-conformance	70
MSACMG708A	Capture learning from daily activities in a manufacturing organisation	70	MSS407008A	Capture learning from daily activities in a organisation	70
MSACMG709A	Facilitate improvements in the external value chain	70	MSS407009A	Facilitate improvements in the external value chain	70
MSACMG710A	Improve visual management in the workplace	70	MSS407010A	Improve visual management in the workplace	70
MSACMG711A	Manage benchmarking studies	70	MSS40711A	Manage benchmarking studies	70
MSACMG712A	Lead a problem solving process to determine and solve root cause	70	MSS407012A	Lead a problem solving process to determine and solve root cause	70

MSA07 Version 7			MSS11 Version 2		
Code	Title	Nominal hour	Code	Title	Nominal hour
MSACMG800A	Analyse data for relevance to organisational learning	70	MSS408008A	Analyse data for relevance to organisational learning	70
MSACMG801A	Develop the competitive manufacturing approach	70	MSS408001A	Develop the competitive manufacturing systems and practices approach	70
MSACMG802A	Audit the use of competitive tools	70	MSS408002A	Audit the use of competitive tools	70
MSACMG803A	Develop models of future state manufacturing practice	70	MSS408003A	Develop models of future state operations practice	70
MSACMG804A	Develop the value chain	70	MSS408004A	Develop the value stream	70
MSACMG805A	Develop the learning processes of the manufacturing organisation	70	MSS408005A	Develop the learning processes of the operations organisation	70
MSACMG806A	Develop and refine systems for continuous improvement in manufacturing organisations	70	MSS408006A	Develop and refine systems for continuous improvement in operations	70
MSACMG807A	Develop problem solving capability of a manufacturing organisation	70	MSS408007A	Develop problem solving capability of an organisation	70
MSACMS200A	Apply competitive manufacturing practices	40	MSS402001A	Apply competitive systems and practices	40
MSACMS201A	Sustain process improvements	40	MSS402002A	Sustain process improvements	40
MSACMS400A	Implement a competitive manufacturing system	50	MSS403001A	Implement a competitive systems and practices	50
MSACMS401A	Ensure process improvements are sustained	50	MSS403002A	Ensure process improvements are sustained	50
MSACMS405A	Lead a manufacturing team using a balanced score card approach	40	MSS403005A	Facilitate use of a Balanced Scorecard for performance improvement	40
MSACMS600A	Develop a competitive manufacturing system	60	MSS405001A	Develop a competitive systems and practices for an organisation	60
MSACMS601A	Analyse and map a value chain	60	MSS405002A	Analyse and map a value stream	60
MSACMS602A	Manage a value chain	60	MSS405003A	Manage a value stream	60
MSACMS603A	Develop manufacturing related business plans	60	MSS405004A	Develop business plans in an organisation implementing competitive systems and practices	60
MSACMS604A	Manage competitive manufacturing processes in a jobbing shop environment	60	MSS405005A	Manage competitive systems and practices responding to individual and unique customer orders	60
MSACMS605A	Develop a Balanced Scorecard for use in competitive manufacturing	40	MSS405006A	Develop a balanced scorecard	40
MSACMS606A	Introduce competitive manufacturing to a small or medium enterprise	60	MSS405007A	Introduce competitive systems and practices to a small or medium enterprise	60
MSACMT220A	Apply quick changeover procedures	30	MSS402020A	Apply quick changeover procedures	30
MSACMT221A	Apply Just in Time (JIT) procedures	30	MSS402021A	Apply Just in Time procedures	30
MSACMT230A	Apply cost factors to work practices	35	MSS402030A	Apply cost factors to work practices	35
MSACMT231A	Interpret product costs in terms of customer	30	MSS402031A	Interpret product costs in terms of customer	30

MSA07 Version 7			MSS11 Version 2		
Code	Title	Nominal hour	Code	Title	Nominal hour
	requirements			requirements	
MSACMT240A	Apply 5S procedures in a manufacturing environment	30	MSS402040A	Apply 5S procedures	30
MSACMT250A	Monitor process capability	30	MSS402050A	Monitor process capability	30
MSACMT251A	Apply quality standards	30	MSS402051A	Apply quality standards	30
MSACMT260A	Use planning software systems in manufacturing	30	MSS402060A	Use planning software systems in operations	30
MSACMT261A	Use SCADA systems in manufacturing	30	MSS402061A	Use SCADA systems in operations	30
MSACMT270A	Use sustainable energy practices	30		Unit removed – not carried forward	
MSACMT271A	Use sustainable environmental practices	30		Unit removed – not carried forward	
MSACMT280A	Undertake root cause analysis	30	MSS402080A	Undertake root cause analysis	30
MSACMT281A	Contribute to the application of a proactive maintenance strategy	30	MSS402081A	Contribute to the application of a proactive maintenance strategy	30
MSACMT421A	Facilitate a Just in Time (JIT) system	50	MSS403021A	Facilitate a Just in Time system	50
MSACMT423A	Monitor a manufacturing levelled pull system	50	MSS403023A	Monitor a levelled pull system of operations	50
MSACMT430A	Improve cost factors in work practices	50	MSS403030A	Improve cost factors in work practices	50
MSACMT432A	Analyse manual handling processes	50	MSS403032A	Analyse manual handling processes	50
MSACMT440A	Lead 5S in a manufacturing environment	50	MSS403040A	Facilitate and improve implementation of 5S	50
MSACMT441A	Facilitate continuous improvement in manufacturing	40	MSS403041A	Facilitate breakthrough improvements	40
MSACMT450A	Undertake process capability improvements	50	MSS404050A	Undertake process capability improvements	50
MSACMT451A	Mistake proof a production process	50	MSS403051A	Mistake proof an operation process	50
MSACMT452A	Apply statistics to processes in manufacturing	40	MSS405052A	Apply statistics to operational processes	40
MSACMT453A	Use six sigma techniques	40	MSS404053A	Use six sigma techniques	40
MSACMT460A	Facilitate the use of planning software systems in manufacturing	50	MSS404060A	Facilitate the use of planning software systems in a team or work area	50
MSACMT461A	Facilitate SCADA systems in a manufacturing team or work area	50	MSS404061A	Facilitate the use of SCADA systems in a manufacturing team or work area	50
MSACMT481A	Undertake proactive maintenance analyses	50	MSS404081A	Undertake proactive maintenance analyses	50
MSACMT482A	Assist in implementing a proactive maintenance strategy	50	MSS404082A	Assist in implementing a proactive maintenance strategy	50
MSACMT483A	Support proactive maintenance	50	MSS404083A	Support proactive maintenance	50
MSACMT620A	Develop quick changeover procedures	60	MSS405020A	Develop quick changeover procedures	60
MSACMT621A	Develop a Just in Time (JIT) system	60	MSS405021A	Develop a Just in Time system	60
MSACMT622A	Design a process layout	80	MSS405022A	Design a process layout	80
MSACMT623A	Develop a levelled pull system of manufacturing	60	MSS405023A	Develop a levelled pull system for operations and processes	60
MSACMT630A	Optimise cost of product	60	MSS405030A	Optimise cost of product or service	60



MSA07 Version 7			MSS11 Version 2		
Code	Title	Nominal hour	Code	Title	Nominal hour
MSACMT631A	Undertake value analysis of product costs in terms of customer requirements	60	MSS405031A	Undertake value analysis of product or process costs in terms of customer requirements	60
MSACMT632A	Analyse cost implications of maintenance strategy	60	MSS405032A	Analyse cost implications of maintenance strategy	60
MSACMT640A	Manage 5S system in a manufacturing environment	60	MSS405040A	Manage 5S system in an organisation	60
MSACMT641A	Implement a continuous improvement system	60	MSS405041A	Implement a continuous improvement systems in an organisation	60
MSACMT650A	Determine and improve process capability	60	MSS405050A	Determine and improve process capability	60
MSACMT652A	Design an experiment	80	MSS405052A	Design an experiment	80
MSACMT653A	Apply six sigma to process control and improvement	60	MSS405053A	Manage application of six sigma for process control and improvement	60
MSACMT660A	Develop the application of enterprise systems in manufacturing	60	MSS405060A	Develop the application of enterprise control systems in an organisation	60
MSACMT661A	Determine and establish information collection requirements and processes	60	MSS405061A	Determine and establish information collection requirements and processes	60
MSACMT662A	Develop a documentation control strategy for a manufacturing enterprise	60	MSS405062A	Develop a documentation control strategy for an organisation	60
MSACMT670A	Develop and manage sustainable energy practices	60	MSS405070A	Develop and manage sustainable energy practices	60
MSACMT671A	Develop and manage sustainable environmental practices	60		Unit removed, not carried forward	
MSACMT675A	Facilitate the development of a new product	60	MSS405075A	Facilitate the development of a new product	60
MSACMT681A	Develop proactive maintenance strategy	60	MSS405081A	Develop a proactive maintenance strategy	60
MSACMT682A	Adapt a proactive maintenance strategy to the process manufacturing sector	60	MSS405082A	Adapt a proactive maintenance strategy to the process operations sector	60
MSACMT683A	Adapt a proactive maintenance strategy for a seasonal or cyclical manufacturing operation	60	MSS405083A	Adapt a proactive maintenance strategy for a seasonal or cyclical business	60

## Traineeships

The following table provides a summary of the traineeships available in the MSA07 Manufacturing Training Package Version 8.

MSA07 Version 8			
National ID	Qualification Title	Traineeship	Hours
MSA20107	Certificate II in Process Manufacturing	Process Manufacturing (Level 2)	427
MSA20610	Certificate II in Recreational Vehicle Manufacture	Recreation Vehicle Production Assistant (Level 2)	355
MSA30107	Certificate III in Process Manufacturing	Process Support (Level 3)	558
MSA30107	Certificate III in Process Manufacturing	Process Manufacturing (Level 3)	558
MSA30309	Certificate III in Surface Preparation and Coating Application	Surface Preparation and Coating Application	731
MSA30610	Certificate III in Recreation Vehicle Manufacture	Recreational Vehicle Production Team Leader (Level 3)	516
MSA50108	Diploma of Manufacturing Technology	Manufacturing Technician - Metallurgy	778
MSA60108	Advanced Diploma of Manufacturing Technology	Manufacturing Technologist – Metallurgy	1320