



Australian Government

Department of Education, Employment and Workplace Relations

MSA20107 Certificate II in Process Manufacturing

Revision Number: 1

MSA20107 Certificate II in Process Manufacturing

Modification History

Not applicable.

Description

The Certificate II in Process Manufacturing is intended for competent production workers who undertake vital production support roles directly related to producing products. The production worker would 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 cabling
- manufactured mineral products.

Licensing considerations

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.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

MSA20107 Certificate II in Process Manufacturing

The following table contains a summary of the Employability Skills required by the process manufacturing industries for this qualification. The Employability Skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

Due to the high proportion of electives required by this qualification, the industry/enterprise requirements described for each Employability Skill are representative of the industry in general and may not reflect specific job roles. Learning and assessment strategies for this qualification should be based on the requirements of the units of competency for this qualification.

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • plan own work • achieve production targets • identify production targets • recognise hazards and follow appropriate hazard control methods

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
Self-management	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • ask questions to gain information • seek clarification • participate in improvement procedures
Technology	<ul style="list-style-type: none"> • check process is operating within required limits • monitor equipment operation • use appropriate instruments • monitor and adjust machine functions • use forklift controls, instruments and indicators • carry out pre-operational checks on equipment

Packaging Rules

Packaging Rules

To be awarded the Certificate II in Process Manufacturing, competency must be achieved in **fourteen (14)** units of competency:

- **three (3)** core units of competency
- **eleven (11)** elective units of competency, four (4) of which can be selected from this Training Package, other endorsed Training Packages and accredited courses, as specified below.
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Core units of competency

- Complete all **three (3)** units of competency from this list.

MSAENV272B	Participate in environmentally sustainable work practices
MSAPMOHS200A	Work safely
MSAPMSUP210A	Process and record information

Group A - Elective units

- Select a minimum of **eleven (11)** units of competency from the following list.

Support units	
Unit code	Unit title
LMTGN2008B	Coordinate work of team/section
MEM13003B	Work safely with industrial chemicals and materials
MEM16006A	Organise and communicate information
MEM16007A	Work with others in a manufacturing, engineering or related environment
MEM16008A	Interact with computing technology
MEM18001C	Use hand tools
MEM18002B	Use power tools/hand held operations
MSACMS201A	Sustain process improvements
MSACMT220A	Apply quick changeover procedures
MSACMT221A	Apply Just in Time (JIT) procedures
MSACMT230A	Apply cost factors to work practices
MSACMT240A	Apply 5S procedures in a manufacturing environment
MSACMT250A	Monitor process capability
MSACMT251A	Apply quality standards
MSACMT260A	Use planning software systems in manufacturing
MSACMT280A	Undertake root cause analysis
MSAPMOHS100A	Follow OHS procedures
MSAPMOHS110A	Follow emergency response procedures
MSAPMOHS205A	Control minor incidents
MSAPMOHS210B	Undertake first response to non-fire incidents

Support units	
MSAPMOHS212A	Undertake first response to fire incidents
MSAPMOHS216A	Operate breathing apparatus
MSAPMOHS217A	Gas test atmospheres
MSAPMOHS220A	Provide initial first aid response
MSAPMOPS100A	Use equipment
MSAPMOPS101A	Make measurements
MSAPMOPS102A	Perform tasks to support production
MSAPMPER200C	Work in accordance with an issued permit
MSAPMPER201A	Monitor and control work permits
MSAPMPER202A	Observe permit work
MSAPMPER205C	Enter confined space
MSAPMSUP100A	Apply workplace procedures
MSAPMSUP101A	Clean workplace or equipment
MSAPMSUP102A	Communicate in the workplace
MSAPMSUP106A	Work in a team
MSAPMSUP172A	Identify and minimise environmental hazards
MSAPMSUP201A	Receive or despatch goods
MSAPMSUP200A	Achieve work outcomes
MSAPMSUP204A	Pack products or materials
MSAPMSUP205A	Transfer loads
MSAPMSUP230A	Monitor process operations
MSAPMSUP240A	Undertake minor maintenance
MSAPMSUP273A	Handle goods
MSAPMSUP280A	Manage conflict at work

Support units	
MSAPMSUP291A	Participate in continuous improvement
MSAPMSUP292A	Sample and test materials and product
PMBHAN103C	Shift materials safely by hand
TLID1007C	Operate a forklift
RIIRIS201A	Conduct local risk control
Technical units	
FPICOT2206B	Cross cut materials with a hand-held chainsaw
MSAPMOPS200A	Operate equipment
MSAPMOPS212A	Use enterprise computers or data systems
A maximum of four (4) relevant units may be selected from this Training Package, other endorsed Training Packages and accredited courses, where those units are available for inclusion at Certificate II or III. Note: a maximum of two (2) units may be chosen from Certificate III.	

Unit Grid

FPICOT2206B Cross cut materials with a hand-held chainsaw
 LMTGN2008B Coordinate work of team or section
 MEM13003B Work safely with industrial chemicals
 MEM16006A Organise and communicate information
 MEM16007A Work with others in a manufacturing, engineering or related environment
 MEM16008A Interact with computing technology
 MEM18001C Use hand tools
 MEM18002B Use power tools_hand held operations
 MSACMS201A Sustain process improvements
 MSACMT220A Apply quick changeover procedures
 MSACMT221A Apply Just in Time (JIT) procedures
 MSACMT230A Apply cost factors to work practices
 MSACMT240A Apply 5S procedures in a manufacturing environment
 MSACMT250A Monitor process capability
 MSACMT251A Apply quality standards
 MSACMT260A Use planning software systems in manufacturing
 MSACMT280A Undertake root cause analysis
 MSAENV272B Participate in environmentally sustainable work practices

MSAPMOHS100A Follow OHS procedures
MSAPMOHS110A Follow emergency response procedures
MSAPMOHS200A Work safely
MSAPMOHS205A Control minor incidents
MSAPMOHS210B Undertake first response to non-fire incidents
MSAPMOHS212A Undertake first response to fire incidents
MSAPMOHS216A Operate breathing apparatus
MSAPMOHS217A Gas test atmospheres
MSAPMOHS220A Provide initial First Aid response
MSAPMOPS100A Use equipment
MSAPMOPS101A Make measurements
MSAPMOPS102A Perform tasks to support production
MSAPMOPS200A Operate equipment
MSAPMOPS212A Use organisation computers or data systems
MSAPMPER200C Work in accordance with an issued permit
MSAPMPER201A Monitor and control work permits
MSAPMPER202A Observe permit work
MSAPMPER205C Enter confined space
MSAPMSUP100A Apply workplace procedures
MSAPMSUP101A Clean workplace or equipment
MSAPMSUP102A Communicate in the workplace
MSAPMSUP106A Work in a team
MSAPMSUP172A Identify and minimise environmental hazards
MSAPMSUP200A Achieve work outcomes
MSAPMSUP201A Receive or despatch goods
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