Australian Government

Department of Education, Employment and Workplace Relations

MSA81109 Vocational Graduate Diploma of Competitive Manufacturing

Revision Number: 2

MSA81109 Vocational Graduate Diploma of Competitive Manufacturing

Modification History

This qualification has been superseded by MSS80312 Vocational Graduate Diploma of Competitive Systems and Practices from MSS11v2 Sustainability Training Package. Equivalent outcomes.

Description

This qualification provides comprehensive professional development training and recognition to people exercising major leadership and accountability for change management functions in an organisation using lean principles and other competitive manufacturing processes.

Job roles/employment outcomes
The Vocational Graduate Diploma of Competitive Manufacturing provides professional development for individuals who already have some previous training or work experience in competitive manufacturing systems and processes at AQF III or higher.

Application
This qualification applies to team leaders, supervisors, managers and technical experts responsible for implementing competitive manufacturing practices in a manufacturing enterprise or working in part of a value chain linked to a manufacturing enterprise.

Pathways into the qualification
Entrants to the Vocational Graduate Diploma of Competitive Manufacturing are required to have one or more of the following:

- MSA71109 Vocational Graduate Certificate in Competitive Manufacturing
- a relevant Advanced Diploma or Diploma, or a relevant Certificate IV or Certificate III together with significant relevant vocational practice
- relevant extensive vocational practice without formal qualifications;
- a Bachelor Degree
- another higher education qualification, with relevant vocational practice.

A relevant qualification that would support entry to this Vocational Graduate Diploma should include aspects of manufacturing processes such as productivity measurement, efficiency and effectiveness.

For the purposes of this qualification the term 'vocational practice' is defined as experience with competitive processes, systems or tools in a manufacturing organisation or in an organisation that has applied similar systems and tools as a member of a manufacturing value chain.

Licensing considerations
There are no licensing implications for this qualification.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
Vocational Graduate Diploma in Competitive Manufacturing The following table contains a summary of the employability skills as identified by manufacturing industry for this qualification. This table should be interpreted in conjunction with the detailed requirements of each unit of competency packaged in this qualification. The outcomes described here are broad industry requirements that reflect skill requirements for this level.	
Employability skill	**Industry/enterprise requirements for this qualification include**:
Communication	• Consult with internal and external stakeholders on the implementation of change • Communicate processes and goals to managers, other employees and members of the value chain • Use interpersonal and language skills to encourage collaboration • Through discussion with team members identify new improvement opportunities
Teamwork	• Cultivate collaboration and participation in change processes • Meet with stakeholders to resolve problems • Establish support and ownership among stakeholders for future state objectives
Problem solving	• Collect, analyse and interpret data • Determine root causes of non-conformances • Evaluate options for improvements to standardised work • Analyse effects of potential and actual equipment failures
Initiative and enterprise	• Ensure data collection and feedback mechanisms are established for all change implementation processes • Provide leadership during major non-conformances • Identify and implement process improvements • Use analytical and decision making skills to prioritise improvement activities • Adjust and implement production schedules changes

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
Planning and organising	• Identify data requirements to determine current and future states • Organise data collection systems • Establish team responsibilities for implementation of change • Plan change implementation strategy and identify risk factors
Self management	• Manage own time and establish own work schedule • Monitor and evaluate own work quality • Maintain professional and ethical standards in own work • Comply with legislative requirements, codes of practice • and organisational policies and procedures
Learning	• Identify opportunities for individual and organisational learning • Use feedback from others to establish improvement processes • Record learning according to organisational procedures • Ensure stakeholders are able to access and apply relevant knowledge/learning
Technology	• Analyse systems and technology implications of change options • Implement procedures to monitor and record equipment availability, performance and availability • Determine systems compatibility with other members of the value chain • Use record keeping equipment and programs

Packaging Rules

Packaging Rules

To be awarded a Vocational Graduate Diploma of Competitive Manufacturing Practice competency must be achieved in **eight** (**8**) elective units of competency as specified below:

- a minimum of **five** (**5**) units must be selected from Groups A and B, with at least **two** (**2**) from Group A
- a maximum of **three** (**3**) units may be selected from Group C.

Note that no Group A or Group B units have prerequisites.

Group A - competitive manufacturing graduate diploma units

MSACMG800A	Analyse data for relevance to organisational learning
MSACMG801A	Develop the competitive manufacturing approach
MSACMG802A	Audit the use of competitive tools
MSACMG803A	Develop models of future state manufacturing practice
MSACMG804A	Develop the value chain
MSACMG805A	Develop the learning processes of the manufacturing organisation
MSACMG806A	Develop and refine systems for continuous improvement in manufacturing organisations
MSACMG807A	Develop problem solving capability of a manufacturing organisation

Group B - competitive manufacturing graduate certificate electives

MSACMG700A	Review continuous improvement processes
MSACMG701A	Prepare for and implement change
MSACMG702A	Review manufacturing practice tools and techniques
MSACMG703A	Analyse process changes
MSACMG704A	Facilitate improvements in the internal value chain
MSACMG705A	Undertake a qualitative review of a process change
MSACMG706A	Build relationships between teams in a manufacturing environment
MSACMG707A	Respond to a major non-conformance

MSACMG700A	Review continuous improvement processes
MSACMG708A	Capture learning from daily activities in a manufacturing organisation
MSACMG709A	Facilitate improvements in the external value chain
MSACMG710A	Improve visual management in the workplace
MSACMG711A	Manage benchmarking studies
MSACMG712A	Lead a problem solving process to determine and solve root cause

Group C - Other competitive manufacturing units

Where prerequisites apply, these are listed. Note that prerequisite units **are not** included in the count towards the eight units required for this qualification. If the prerequisite unit has not already been achieved through prior study or RPL, then completion of the prerequisite(s) is also required.

Unit code	**Title**	**Prerequisite units**
MSAENV672B	Develop workplace policy and procedures for environmental sustainability	
MSACMS601A	Analyse and map a value chain	MSACMT631A Undertake value analysis of product costs in terms of customer requirements MSACMT230A Apply cost factors to work practices
MSACMS602A	Manage a value chain	MSACMS601A Analyse and map a value chain MSACMT631A Undertake value analysis of product costs in terms of customer requirements
MSACMS605A	Develop a balanced score	MSACMT280A

Unit code	Title	Prerequisite units
	card for use in competitive manufacturing	Undertake root cause analysis MSACMS601A Analyse and map a value chain MSACMT631A Undertake value analysis of product costs in terms of customer requirements
MSACMS606A	Introduce competitive manufacturing to a small or medium enterprise	
MSACMT620A	Develop quick changeover procedures	
MSACMT622A	Design a process layout	
MSACMT623A	Develop a levelled pull system of manufacturing	
MSACMT630A	Optimise cost of product	MSACMT631A Undertake value analysis of product costs in terms of customer requirements
MSACMT631A	Undertake value analysis of product costs in terms of customer requirements	MSACMT230A Apply cost factors to work practices
MSACMT640A	Manage 5S system in a manufacturing environment	
MSACMT650A	Determine and improve process capability	
MSACMT652A	Design an experiment	MSACMT452A Apply statistics to processes in manufacturing
MSACMT653A	Apply six sigma to process control and improvement	MSACMT452A Apply statistics to processes in manufacturing

Unit code	Title	Prerequisite units
MSACMT670A	Develop and manage sustainable energy practices	
MSACMT671A	Develop and manage sustainable environmental practices	
MSACMT681A	Develop a proactive maintenance strategy	
MSACMT682A	Adapt a proactive maintenance strategy to the process manufacturing sector	MSACMT681A Develop a proactive maintenance strategy
MSACMT683A	Adapt a proactive maintenance strategy for a seasonal or cyclical manufacturing operation	MSACMT681A Develop a proactive maintenance strategy
One unit may also be chosen from other qualifications in this Training Package, other endorsed Training Packages and accredited courses where those units are available at Diploma or above. Registered Training Organisations should seek a determination from Manufacturing Skills Australia regarding the suitability of any unit proposed for use in this qualification.		