

## Course Outline

### MSA41108 - Certificate IV in Competitive Manufacturing

<b>Packaging Rules:</b>					
The Competitive Manufacturing units of competency are categorised into three groups:					
<ul style="list-style-type: none"> <li>• Systems units (MSACMS)</li> <li>• Change/interpersonal units (MSACMC)</li> <li>• Tools units (MSACMT)</li> </ul>					
To be awarded a Certificate IV in Competitive Manufacturing requires a total of 10 units ( <i>At least three of these units must be from the Competitive Manufacturing (CM) 400 series units.</i> ) comprised of:					
<ul style="list-style-type: none"> <li>• One CM systems unit from the specified list</li> <li>• Two CM change/interpersonal units from the specified list (<i>MSACMC410A is mandatory</i>)</li> <li>• A minimum of two CM tools units from the specified list</li> <li>• Other CM units as specified and/or up to five relevant units from other endorsed Training Packages.</li> </ul>					
Nominal Duration by state	VIC – 24mths	NSW – 36mths	QLD – 24mths	WA – 24mths	TAS – 24mths

Code	Units	Nominal hours
<b>CM Systems Units (MSACMS)</b>		
<b>MSACMS400A</b>	<b>Implement a competitive manufacturing system</b> This unit covers the knowledge and skills needed to implement competitive manufacturing practices. Generally, five areas drive competitive manufacturing: cost, quality, delivery, safety/environment, and morale. In a competitive manufacturing company systems will need to be implemented which drive continuous improvement in all these areas, without one area competing unduly with another.	<b>50</b>
<b>CM Change/interpersonal Units (MSACMC)</b>		
<b>MSACMC410A</b> <i>*Mandatory Unit</i>	<b>Lead change in a manufacturing environment</b> This unit covers the knowledge and skills needed by people who are given the responsibility of leading change processes in a manufacturing organisation. The change may be occurring in manufacturing or in the support functions of maintenance, office, warehousing etc.	<b>50</b>
<b>MSACMC411A</b>	<b>Lead a competitive manufacturing team</b> This unit covers the knowledge and skills needed by people who lead teams in a competitive manufacturing environment. The team may be operating in manufacturing or in a manufacturing support function e.g. maintenance, office, warehousing etc.	<b>50</b>
<b>CM Tools Units (MSACMT)</b>		
<b>MSACMT430A</b>	<b>Improve cost factors in work practices</b> This unit covers the knowledge and skills needed to evaluate the product or process outcomes of a team in terms of their cost components and to be able to determine in general terms the cost impacts of alternative actions.	<b>50</b>
<b>MSACMT440A</b>	<b>Lead 5S in a manufacturing environment</b> This unit covers the competencies needed to facilitate and improve the 5S housekeeping environment	<b>50</b>

<b>MSACMT441A</b>	<b>Facilitate continuous improvement in manufacturing</b> This unit covers the knowledge and skills required to facilitate continuous improvement (kaizen) in an organisation.	<b>40</b>
<b>MSACMT451A</b>	<b>Mistake proof a production process</b> This unit covers the knowledge and skills needed to make changes which prevent errors and/or backsliding to pre-improvement level of practice. In the CMI environment, this unit would typically be done by a team leader, technical expert or similar person.	<b>50</b>
<b>MSACMT452A</b>	<b>Apply statistic to processes in manufacturing</b> This unit covers the knowledge and skills required to apply statistical theory and principles to the analysis and control of processes in manufacturing.	<b>40</b>
<b>MSACMT453A</b>	<b>Use six sigma techniques *Prerequisite MSACMT452A</b>	<b>40</b>
<b>MSACMT481A</b>	<b>Undertake proactive maintenance analyses</b> This unit covers the skills needed for the most common forms of analyses associated with predictive maintenance strategies.	<b>50</b>
<b>CM Elective Units</b>		
<b>MSACMC210A</b>	<b>Manage the impact of change on own work</b>	<b>40</b>
<b>MSACMT220A</b>	<b>Apply quick changeover procedures</b> This unit covers the knowledge and skills needed to do quick changeovers.	<b>40</b>
<b>MSACMT221A</b>	<b>Apply Just in Time (JIT) procedures</b> This unit covers the knowledge and skills needed in an organisation follow <i>procedures</i> which are specific to JIT such as the controlled flow of material (eg the use of <i>kanban</i> , and elimination of waste etc). This will involve the operator in the application of the <i>pull system</i> to their job and the authorisation of product/material flows, in accordance with procedures and their level of authority	<b>30</b>
<b>MSACMT230A</b>	<b>Apply cost factors to work practices</b> This unit covers the knowledge and skills needed for an individual to identify cost components and to be able to determine in general terms the cost impacts of alternative actions.	<b>40</b>
<b>MSACMT240A</b>	<b>Apply 5S procedures in a manufacturing environment</b> This unit covers the knowledge and skills needed for an employee to apply 5S procedures (a structured approach to housekeeping) to their own job and work area.	<b>40</b>
<b>MSACMT280A</b>	<b>Undertake root cause analysis</b> This unit covers the knowledge and skills needed to undertake root cause analysis (RCA) by any person. This will often be done by people working in a team. This unit also covers the competencies needed by operators to contribute to an advanced maintenance strategy using RCA coupled with diagrams and charts.	<b>50</b>
<b>BSBWOR402A</b>	<b>Promote team effectiveness</b> This unit specifies the outcomes required of frontline managers to promote teamwork. It involves developing team plans to meet expected outcomes, leading the work team, and proactively working with the management of the organisation.	<b>50</b>