

## MSA40108 Certificate IV in Manufacturing Technology

This qualification is sufficiently flexible to be applicable in most manufacturing environments.

NTS has structured this qualification to provide training and assessment that enables an employer to standardise the current skill level within their company in regard to safety, quality, process operations within a lean culture and operating environment.

Workplace Improvement Projects undertaken by participants are designed to generate cost and efficiency gains for the employer.

The qualification is normally offered in conjunction with one other qualification depending on the requirements of each company and its workforce. The qualifications offered in conjunction with MSA40108 Certificate IV in Manufacturing Technology is:

MSS40316 Certificate IV in Competitive Systems and Practices

The program is structured into 4 clusters of related and complimentary units. The units and activities within each cluster are structured as follows:

- Clusters 1 & 2 - Planning, preparation, review, discovery and research
- Cluster 3 – Workplace improvement projects launched and implemented
- Cluster 4 – Implementation and consolidation of workplace improvement projects followed by measurement, review, evaluation and reflection

### MSA40108 Certificate IV in Manufacturing Technology Qualification Cohort

All participants must be currently employed in production positions in a manufacturing company. This program is suitable for employees working in manufacturing where their roles require the application of industry specific skills and knowledge across a range of processes including some technical and problem-solving ability. It caters for multi-skilled outcomes and roles that include team leader functions with the production environment.

Typically, this cohort will have general manufacturing experience and hold job roles in the following specialist areas:

- CAD/Drafting
- Manufacturing Operations
- Laboratory Operations
- Technical Officer
- Polymer Technology

This qualification assumes that a learner has current or past work experience where operational or technical skills have already been gained and a level of responsibility already exists. This qualification is not suitable for direct entry from school. Entry Requirements

### Entry Requirements MSA40108 Certificate IV in Manufacturing Technology

There are no mandated prerequisite qualification requirements for entry into the **MSA40108 Certificate IV in Manufacturing Technology**. However, National Training Services offers these qualifications as a work-based training and assessment program and therefore participants must be employed in a suitable manufacturing company to enter into this qualification. Additionally, they will need to have the support of their employer to undertake the training and assessment program over a period of approximately 14 months. Suitability is determined by identifying if applicants fit the criteria outlined below.

The **MSA40108 Certificate IV in Manufacturing Technology** qualification outlined in this Training and Assessment Strategy is suitable for workers employed in the manufacturing industry who wish to enrol into the manufacturing operations stream.

This program is not suitable for new entrants to the manufacturing industry who have no previous training or experience in manufacturing technology.

The normal duration for this program is 14 months.

Students with credit transfer or recognition of prior learning for units may complete this qualification in less than 14 months.

### Completion Requirements MSA40108 Certificate IV in Manufacturing Technology:

Sixteen units must be completed. The 16 units are comprised of:

- Four (4) core units of competency
- Twelve (12) elective units of competency, as specified below:

The 12 elective units must be selected from one of the specialist streams to achieve a specialised outcome. The specialist stream chosen for this Training and Assessment Strategy is the Manufacturing Operations stream comprising of:

- A minimum of ten (10) from the specialist stream units listed
- The balance to be chosen from Group B General Electives

### Time commitment

All requirements for the course are undertaken in the workplace. Time release from usual work duties is negotiated with the employer by the trainer. Training and assessment activities undertaken in the workplace include:

- Training sessions
- Project planning, implementation and presentation
- Skills development

### Assessment

Assessment consists of written or verbal assessment of understanding of competitive systems and practices techniques and tools; workplace observation by the trainer; and project presentations reviewed by the trainer and workplace management.

### Pathway

MSA50108 Diploma of Manufacturing Technology. National Training Services does not offer this qualification.

### Government Funding

National Training Services (RTO21254) can access State government funding for this qualification through the Skills first funding program. To enquire about your eligibility for State Government funding contact National Training Services on 03 9988 7948 during office hours.

### Tuition Fees

Students who are eligible for Victorian Skills First Funding will pay no tuition fees. Students not eligible for Victorian Skills First Funding may be required to pay a fee. Contact National Training Services on 03 9988 7948 during office hours for more details.

### MSA40108 Certificate IV in Manufacturing Technology.

Code	Name of Unit/Module	Core / elective
MEM16008A	Interact with computing technology	Core
MEM30012A	Apply mathematical techniques in a manufacturing, engineering or related environment	Core
MSS402051A	Apply quality standards	Core
MSAENV272B	Participate in environmentally sustainable work practices	Core
MEM16006A	Organise and communicate information	Elective
MEM30015A	Develop recommendations for basic set up time improvements	Elective
MEM30016A	Assist in the analysis of a supply chain	Elective
MEM30017A	Use basic preventative maintenance techniques and tools	Elective
MEM30020A	Develop and manage a plan for a simple manufacturing related project	Elective
MSS402001A	Apply competitive systems and practices	Elective
MSS402020A	Apply quick changeover procedures	Elective
MSS402030A	Apply cost factors to work practices	Elective
MSS402080A	Undertake root cause analysis	Elective
MSS403002A	Ensure process improvements are sustained	Elective
MSS403030A	Improve cost factors in work practices	Elective
MSS403032A	Analyse manual handling processes	Elective

### National Training Services RTO 21254 Student Information

#### Who are we?

National Training Services RTO 21254 is a Registered Training Organisation (RTO) regulated by the Australian Skills Qualification Authority.

National Training Services RTO 21254 works to provide recognition of the training and assessment they provide, award Nationally Recognised certification and maintain the records and documentation required by State and Federal Government regulatory and funding authorities.

National Training Services RTO 21254 has a range of qualifications on its Scope of Registration. Part of its offering includes Nationally Recognised Qualifications in the manufacturing industry.

National Training Services RTO 21254 provides the following manufacturing industry qualifications:

- FBP30117 Certificate III in Food Processing
- FDF40110 Certificate IV in Food Processing
- MSA30208 Certificate III in Manufacturing Technology
- MSA40108 Certificate IV in Manufacturing Technology
- MSM40116 Certificate IV in Process Manufacturing
- MSS30316 Certificate III in Competitive Systems and Practices
- MSS40316 Certificate IV in Competitive Systems and Practices
- PMA30116 Certificate III in Process Plant Operations
- PMA40116 Certificate IV in Process Plant Technology

#### Where does National Training Services RTO 21254 teach its manufacturing industry courses?

National Training Services RTO 21254 delivers and assess manufacturing industry courses in the workplace and in employer training facilities.

## **What learning resources and assessment tools are used?**

The learning material is industry based content. Prepared by a third party to National Training Services RTO 21254 specifications. National Training Services adapts the learning and assessment material by consulting with employer and validating all assessments undertaken by students.

## **Recognition for previous learning**

National Training Services RTO 21254 offers Credit Transfer and Recognition of Prior Learning for previous study or learning to all students. This is discussed during your pre-training review and if applicable National Training Services RTO 21254 staff will assist you to make an application.

Students wanting to apply for Credit Transfer and Recognition of Prior Learning for previous study or learning must bring certified copies of all relevant qualifications, transcripts and statements of attainment to their interview and provide a copy of a signed and up to date employment resume to the interviewer.

## **What do you receive at the end of your study?**

If you complete your course, you will receive a Nationally Recognised Qualification. If you partially complete your course, you will receive a Statement of Attainment for the units you complete. In both cases, these certificates can be used for Recognition of Prior Learning or Credit Transfer applications with other registered training organisations and TAFE Institutes. If you choose to study a higher qualification at another Registered Training Organisation (RTO) then credit transfer can be used toward the qualification.

## **Who are your teachers?**

National Training Services RTO 21254 sources and employs professionals who hold the relevant manufacturing qualifications and current industry skills and competencies. The combination of manufacturing industry expertise with the relevant skills and qualifications, offers our students the best in education and training.

## **Complaints and Appeals**

The NTS Complaints and Appeals procedure can be viewed at [NTS Compliance Information](#)

## **Brokering Arrangements**

National Training Services has appointed a broker to identify and negotiate with workplaces wishing to undertake this training. Details of the broker are on the National Training Services website on the Compliance page. [National Training Services Brokers List](#).

## **More Information**

For more information about your enrolment with National Training Services RTO 21254, please contact us on (03) 9988 7949 or email your questions and queries to [info@nationaltrainingservices.edu.au](mailto:info@nationaltrainingservices.edu.au)