



Australian Government

PMA70108 Graduate Certificate in Surface Coating Technology

Release: 1

PMA70108 Vocational Graduate Certificate in Surface Coating Technology

Modification History

Not applicable.

Description

This qualification was developed in response to an existing industry need which has previously been met by a non-Training Package qualification. It has strong industry support and the qualification and its units of competency reflect the industry demanded requirements. The Vocational Graduate Certificate in Surface Coating Technology has been developed as a technical qualification for use in the Chemical, Hydrocarbons and Refining Training Package (PMA08). This qualification covers the skills and knowledge required to perform advanced technical and para-professional operations within the surface coating (paint) sector

Job roles/employment outcomes

The Vocational Graduate Certificate in Surface Coating Technology has been developed as a technical qualification for technicians and other technical people who come to the industry with a relevant qualification, or relevant extensive vocational practice without formal qualifications, and need specialist surface coating knowledge.

The process surface coating technologist will analyse performance and failure of surface coatings and surface coating products and will assist in the development on new and modified products.

The Advanced Diploma of in Competitive Manufacturing MCM60104 is available for team leaders and managers at this level where the job requires sophisticated manufacturing practice skills rather than technical skills.

Application

This qualification is typically used to develop employees performing a highly technical role that includes an ability to lead others and conduct technical problem solving according to the needs of the work in the manufactured mineral products industries. It is specifically aimed at those requiring specialist surface coatings knowledge and skills.

People with this qualification may be expected to work in one of the following sectors:

- decorative surface coatings
- non-decorative/industrial surface coatings
- special purpose surface coatings
- other related areas.

Pathways into the qualification

The Vocational Graduate Certificate in Surface Coating Technology offers advanced technical training to people who have completed a suitable technical qualification such as a Bachelor of Science degree or the PMA60110 Advanced Diploma of Process Plant Technology or other relevant qualifications, or who have significant relevant industry experience without formal qualifications. Credit for this qualification may include units contained within relevant skill sets.

Pathways from the qualification

Further training pathways from this qualification include MSA60108 Advanced Diploma of Manufacturing Technology, MSA61108 Advanced Diploma of Competitive Manufacturing or other relevant qualifications, including appropriate vocational graduate qualifications.

Additional qualification advice

MSA61108 Advanced Diploma of Competitive Manufacturing is available for team leaders and managers at this level who already possess technical skills and who require additional manufacturing practice skills above those available in this qualification.

Licensing considerations

There are no specific licences that relate to this qualification. However, in some jurisdictions some units of competency in this qualification may have licensing or regulatory requirements. 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

Employability Skill	Industry/enterprise requirements for this qualification
Communication	• communicate technically with both technicians and customers. • determine problems/issues • explain requirements and problem solutions • complete all reports. • communicate with stakeholders • obtain 'sign off' from all relevant persons. • ensure project records are complete
Teamwork	• work autonomously or as part of a team • liaise and cooperate with other team members • identify own role and responsibility within a team • undertake appropriate and effective communication with team members
Problem-solving	• identify and define problems • apply knowledge of materials, product purpose and processes • suggest solutions to problems • clarifying and addressing potential issues
Initiative and enterprise	• determine problems needing action • recommend required action • recognise problems in systems and documentation • critically analyse information • develop continuous improvement strategies • investigate, rectify and report non-conformance • use analytical and decision making skills • recommend corrective and/or optimization actions
Planning and organising	• organise and prioritise require work • coordinate actions or various people • plan work activities • identify requirements for resources and organise their availability • analyse surface coating systems
Self-management	• operate within appropriate time constraints and work standards • select and use appropriate equipment, materials, processes and procedures • identify resource requirements, document and monitor • consistent performance should be demonstrated

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

Learning	• research and evaluate surface coating systems • ask questions to gain information • identify sources of information to expand knowledge and understanding • recognise limits of own professional expertise and consult specialists as necessary • participate in improvement procedures • access technical manuals/specifications to expand knowledge
Technology	• use testing equipment • determine requirements for activities and projects. • interpret test/trial results • interpret procedures and specifications • recommend a modified process

Packaging Rules**Packaging Rules**

To be awarded the Vocational Graduate Certificate in Surface Coating Technology competency must be achieved in eleven (11) units of competency:

- **Three (3)** core units of competency
- **Eight (8)** elective units of competency chosen as specified below.

Core units of competency

Code	Title	Prerequisite/s
MSAPMOHS200A	Work safely	
PMAOPS751A	Apply physiochemical knowledge to select raw materials for surface coatings	
MSL936001A	Maintain quality system and continuous improvement processes within work/functional area	

Elective units of competency

Select **eight (8)** units as specified below:

- A minimum of **one (1)** from Group A
- The remainder may be chosen from Groups A, B and C (with a maximum of **four (4)** from Group C) to bring the total number of electives to **eight (8)**.

Note that **two (2)** units can be chosen from other qualifications in this Training Package, other endorsed Training Packages and accredited courses as specified in Group C.

Group A

Code	Title	Prerequisite/s
PMAOPS752A	Develop a decorative coating	
PMAOPS753A	Develop a non-decorative coating or ink	

Group B

Code	Title	Prerequisite/s
MSL977001A	Contribute to the development of products and applications	MSL976003A
MSL977002A	Troubleshoot equipment and production processes	MSL976003A
MSL977004A	Develop or adapt analyses and procedures	MSL976003A
PMAOPS755A	Provide surface coatings application advice	

Group C

Code	Title	Prerequisite/s
MSL976003A	Evaluate and select appropriate test methods and/or	

Code	Title	Prerequisite/s
	procedures	
PMAOPS350B	Match and adjust colour	
PMAOPS450B	Solve colour problems	
PMAOPS550B	Develop a colour formulation	PMAOPS350B PMAOPS450B
A maximum of two (2) units may be chosen from other qualifications in this Training Package, other endorsed Training Packages and accredited courses, where those units are available for inclusion at Certificate IV or above.		