Australian Institute of Engineering

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MEM31719

CERTIFICATE III

IN ENGINEERING - CASTING AND MOULDING TRADE

RTO ID : 45356 | CRICOS CODE : 03685G

NATIONALLY RECOGNISED TRAINING

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Nationally Recognised Training

Qualification:

This qualification covers the skills and knowledge required of workers employed as Engineering/manufacturing Employees -Level III as defined in the Manufacturing and Associated Industries and Occupations Award or in related industries.

The qualification has been specifically developed to reflect the minimum training requirement specified in the Award for employment in the above occupation.

Competency will be developed through a combination of on and off-the-job learning strategies such as those delivered through a formal apprenticeship.

Pathways:

Further training pathways from this qualification include transition into technical work through completion of the MEM40119 Certificate IV in Engineering | MEM50119 Diploma of Engineering – Advanced Trade or undertaking other relevant qualifications.

Course Duration:

This course has been designed to be delivered over **4** years in apprenticeship contract.

How Do I Enrol:

Our expert team will assist you with the steps to enrol to undertake training in this qualification.

Please contact our customer service team for more information. **Telephone:** +61 3 9302 1296

Who Can Undertake This Training :

To undertake this program, students must be undertaking an apprenticeship.

How the course is assessed?

The assessments include theory and practical tasks and will be clearly documented in the assessment documents. Assessments will include tasks such as written questions, practical demonstrations and workplace evidence reports.

Eligibility Of Student For Government Funding:

An Australian or New Zealand citizen or Australian permanent resident (including humanitarian entrants), or a temporary resident with the necessary visa and work permits.

Students must be employed in a role that enables them access to appropriate workplace tasks.

AIE will confirm the suitability of the learner's employment prior to commencement.

Delivery Arrangements:

This program is to be delivered through facilitated online training sessions occurring fortnightly (2 hours) and practical skills training will occur through a minimum of 3-4 face to face visits at the student's workplace.

For practical components/ skills, the Trainer will coordinate with the employer to ensure access to suitable environments for practical training to occur.

Learners will also be supplied with Learner Guides for each unit delivered and will work through the learning activities during self-study time. Learning activities will give learners the opportunity to practice and prepare for assessments.

Learners will have the opportunity to apply and test their new knowledge and skills through their employment and on-the-job training within their business.

Course Structure:

Students need to complete a minimum of 96 points consisting of all core units of competency totalling 33 and elective units of competency to a minimum value of 63 points.

CORE UNITS

Unit Code	Unit Name
MEM09002	Interpret Technical Drawing
MEM11011	Undertake Manual Handling
MEM12023	Perform Engineering Measurements
MEM12024	Perform Computations
MEM13015	Work Safely And Effectively In Manufacturing And Engineering
MEM14006	Plan Work Activities
MEM16006	Organise And Communicate Information
MEM16008	Interact With Computing Technology
MEM17003	Assist In The Provision Of On-the-job Training
MEM18001	Use Hand Tools
MEM18002	Use Power Tools/handheld Operations
MSMENV272	Participate In Environmentally Sustainable Work Practices

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ELECTIVE UNITS

The Below Electives Are A Guide And May Vary Depending On Your Business Requirements

Unit Code	Unit Name
MEM04001	Operate melting furnaces
MEM04004	Prepare and mix sand for metal moulding
MEM04006	Operate sand moulding & core making machines
MEM04007	Pour molten metal
MEM04008	Fettle and trim metal castings/forgings
MEM04019	Perform refractory installation and repair
MEM05007	Perform manual heating and thermal cutting
MEM07001	Perform operational maintenance of machines/equipment
MEM04024	Produce moulds and cores by hand
MEM07032	Use workshop machines for basic operations
MEM13003	Work safety with industrial chemicals & materials
MEM13004	Work safety with molten metal/glass
MEM11009	Handle/move bulk fluids/gases
MEM11010	Operate mobile load shifting equipment
MEM11016	Order materials
MEM11022	Operate fixed/moveable load shifting equipment
MEM12001	Use comparison and basic measuring devices
MEM16005	Operate as a team member to conduct manufacturing, engineering, or related activities
MEM13002	Undertake work health safety activities in the workplace

Course Overview:

The Certificate III in Engineering – Casting and Moulding Trade specifies the competencies required for employment as an Engineering Tradesperson – Casting and Moulding.

The skills associated with this qualification are intended to apply to a wide range of casting and moulding work, including producing sand moulds by hand or using moulding machines, pouring and trimming castings and operating and monitoring melting furnaces.

Employment outcomes related to this qualification are found in a wide variety of manufacturing and engineering-related sectors, as well as Engineering Tradesperson – Casting and Moulding roles in other industries.

This qualification is designed to provide an industry recognised skills profile related to trade work as a casting and moulding tradesperson.

Pre-Requisites (Entry Requirements) :

All students must undertake a LL&N assessment as part of the enrollment process. Credit may be granted towards this qualification by those who have completed relevant qualifications.

Recognition of Prior Learning (RPL):

RPL Assessment is a pathway available to candidates who possess substantial industry experience. This method recognizes the expertise and skills developed through extensive engagement in the industry.

Tution FEES:

Payable by employer &/or apprentice

Cost for eligible students:

Tution Fee $2976.00 | Materials Fee $480.00

Total Payable Fees $3456.00

Cost for Ineligible Students:

Tution Fee $14,400.00 | Materials Fee $480.00

Total Payable Fees $14,880.00

Government incentives payments and wage Subsidies may be available for eligible apprentices.

To apply and enrol in this course with Australian Institute of Engineering please contact Brett Ambrosio for further information: Email : bambrosio@auie.edu.au

Encouragement for people with disabilities to access government funded subsidised training:

AIE encourages all, students to look at apprenticeship as a career option. Further information can be obtained by talking to our friendly staff.

"This training is delivered with Victoria and South Australia government funding".

"This training is subsidised by the NSW Government".

Please Note:

*The above units have listed pre-requisite units that are listed within the Training Package and the AIE Engineering Qualifications Overview. All elective units are included and accounted for within the unit selection and order of delivery.

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AWARDS AND RECOGNITION

Finalist, Hume City Council Business Award in Continuous Improvement Category, 2023.

Finalist, Victorian Training Awards in Small Training Provider Category, 2023.

Finalist, Hume City Council Business Award in Learning and Development Category, 2022.

Winner, Hume City Council Business Award in Learning and Development Category, 2021 & 2023.

Winner, Global Corp Media UK in Best Fabrication & Mechanical Engineering RTO Category, 2021.

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