

Why GOTAFE



- After the closure of other training programs such as the Marine craft training program GOTAFE, with industry support, developed a flexible training model.
- This model enabled training to continue in industries that other providers were not going to remain.
- The model has had minor changes over the 6 years due to industry and trainer feedback.
- GOTAFE have been approached by other states to deliver training in niche markets.

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GOTAFE's flexible training model



- Developed to assist business that require an on the job training program for all or part of the training contact.
- GOTAFE will provide training under an approved Training Scheme as nominated on the training contract. In conjunction with the employer, apprentice and school representative (if required)
- GOTAFE will develop a customised Training Plan to suit your business and make a minimum of four (4) contacts per annum with the apprentice/trainee and employer.
- For a first year apprentice it is recommended that they attend 8 face to face sessions to assist them to undertake the required training. In the 2nd and 3rd years 4 sessions are recommended.

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GOTAFE's flexible training model



Employer / Supervisor Obligations:

- Provide the appropriate facilities and equipment to facilitate the training and supervise the apprentice/trainee while at work, in accordance with the training plan.
- Ensure the apprentice/trainee receives on the job training and collect evidence towards assessment in accordance with the Training Plan.
- Provide work that is relevant and appropriate to the vocation and also to the achievement of the qualification referred to the contract.
- Release the apprentice/trainee from work and pay the appropriate wages to attend any training and assessment specified in the Training Plan.

Obligations for workplace based training activities:

 Your apprentice will be withdrawn from routine work duties for structured training activities for a minimum of 3 hours per week or a minimum of 12 hours averaged over 4 weeks.

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- Student and Employer will receive an email with a link to complete an online application.
- A trainer will organise a meeting to discuss training plan and complete paper work. Training may start at this point
- Fees and charges for first 15 students 50% off normal fees
 - Tuition \$1 per SCH
 - Materials .20 cents per SCH
 - 1000 SCH for the gualification

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Funding application

- 2018 GOTAFE met with the AFI Victoria, Victorian Skills commissioner, Industry members & *MESAB
- It was decided that GOTAFE would put in a funding application to support the training program.
- GOTAFE received letters of support from businesses and the AFI Vic and summited its application
- In Dec 2018 GOTAFE were successful with the application.
 - · Higher funding rate for 15 apprentices
 - Funding for the development of new VR resources
 - · Funding for contextualising of resources and to support the program.
 - Laptops and GoPro's to assist students with training.

ceuticals, Transport Technology, Furnishing, Textiles, Clothing and Foo *Manufacturing, Engineering & Automotive inc Aerospace, Med



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Current Numbers



| Employer | Apprentice Numbers |
|----------------------------------|--------------------|
| KEECH CASTINGS | 5 |
| BRADKEN | 1 |
| BILLMANS FOUNDRY | 1 |
| IXL Foundry | 1 |
| BECKWITH IRON & STEEL PTY LTD | 2 |

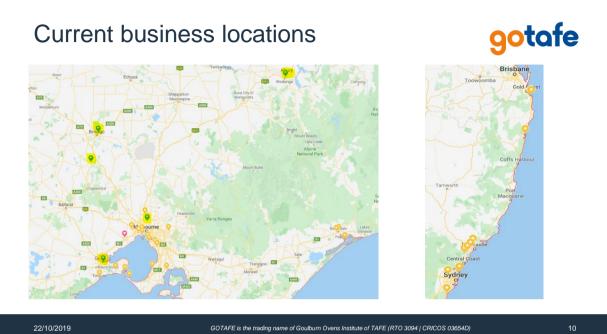
Casting and Moulding 4 apprentices Patten Making 6 apprentices

5 spots still available in Victoria – funding runs out in November

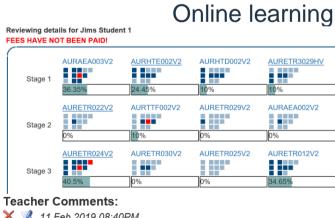
Delivery Models:

Work place based 1 day per month visit from Trainer & TAFE Based 3 days per week for 7-9 weeks

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Jim has been working on how to pour a cast using hot molten metal. Jim is currently on track to complete his apprenticeship within his contract period.

Current Apprentice Qualification-

MEM30305 - Certificate III in Engineering - Fabrication Trade

The incentives for a Certificate III in Engineering – Casting and Moulding is not on the NSNL. As a consequence of this, there is no employer funding for existing workers.

Please see below the new worker rules

- New Entrant Apprenticeship/traineeship is defined as a person employed within an enterprise for not more than three months full-time or 12 months part-time or casual or any combination of the above for a continuous period not exceeding 12 months.
- Note: Such persons must not have been employed at all by the applicant employer for at least six months prior to such full-time employment and twelve months prior to such part-time or casual employment.
- Existing Worker Apprenticeship/Trainee is defined as a person who has been employed within an enterprise continuously for more than 3 months full-time or 12 months casual or part-time or a combination of both, immediately prior to commencement of the training contract.

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New Apprentice Qualification-

MEM31719 Certificate III in Engineering – Casting and Moulding Trade



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Qualification Description

- This qualification defines the skills and knowledge required of an engineering tradesperson casting and moulding within the metal, engineering, manufacturing and associated industries. The qualification has been specifically developed for apprentices in the above trade. The qualification packaging has been developed on an assumption that competency will be developed through a combination of on and off-the-job learning strategies such as those delivered through a formal apprenticeship. The qualification may also be achieved through formal skills recognition assessment processes.
- 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.

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Core units for MEM31719

| Unit code | Unit title |
|-----------|--|
| 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/hand held operations |
| MSMENV272 | Participate in environmentally sustainable work practices |
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Sample elective units for MEM31719

| MEM04001 | Operate melting furnaces |
|----------|---|
| MEM04004 | Prepare and mix sand for metal moulding |
| MEM04006 | Operate sand moulding and core making machines |
| MEM04007 | Pour molten metal |
| MEM04008 | Fettle and trim metal castings/forgings |
| MEM04019 | Perform refractory installation and repair |
| MEM04024 | Produce moulds and cores by hand |
| MEM04025 | Produce moulds and cores by hand (advanced) |
| MEM05007 | Perform manual heating and thermal cutting |
| MEM07001 | Perform operational maintenance of machines/equipment |
| MEM07024 | Operate and monitor machine and process |
| MEM07032 | Use workshop machines for basic operations |
| MEM13003 | Work safely with industrial chemicals and materials |
| MEM13004 | Work safely with molten metals/glass |

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Sample unit of competence:

MEM04007 Pour molten metal



Elements and Performance Criteria Elements describe the essential outcomes. Performance criteria describe the performance needed to demonstrate achievement of the element.

| Prepare for | 2.1 | Select equipment as required |
|------------------------------|-----|--|
| pouring molten metal | 2.2 | Check the condition of the mould and ladle according to procedures |
| | 2.3 | Check the temperature of molten metal for conformance to specification |
| | 2.4 | Sequence pouring method to procedures |
| | 2.5 | Identify the capacity of the required pour against specification |
| | 2.6 | Preheat and prepare the ladle to receive molten metal |
| | | |
| Transfer ladle to furnace | 3.1 | Check safety clips in accordance with safety procedures |
| | 3.2 | Fill and transfer the ladle to the pouring area |
| | 3.3 | Determine additives from specification and add to molten metal as required |

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Sample unit of competence:

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

| Ladle includes one (1) or more of the following: | lip pour tea pot bottom pour barrel bull ladles of varying capacity | |
|---|---|----|
| Additives include one (1) or more of the following: | alloys inoculants spheroidisers coagulants | |
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Questions?

Director, Technology & Built Environment

Brett Ambrosio bambrosio@gotafe.vic.edu.au T 03 5723 6165 M 0458 398 143 Wangaratta VIC 3677 Website: www.gotafe.vic.edu.au

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