

---



2025



**Australian Institute  
of Engineering**

Engineers bring dreams to reality

# The AIE Bulletin

---

ABN: 13 612 727 143 | RTO ID: 45356 | CRICOS CODE : 03685G

# ABOUT THE INSTITUTE

The Australian Institute of Engineering (AIE) is a leading education institution, providing a wide spectrum of engineering courses ranging from pre-apprenticeship qualifications like Certificate II in Engineering to post-graduate qualifications such as the Graduate Diploma in Engineering. With a commitment to industry relevance and student excellence, we offer specialized streams in disciplines such as Marine Craft Construction, Robotics, and Mechatronics, to name a few. Our rapid growth and recognition in the field of education, evident from the numerous awards we've secured, is testament to our unwavering commitment to quality and innovation in engineering education.





# MESSAGE FROM CEO

Welcome to the Australian Institute of Engineering, where we turn dreams into reality. I am proud to highlight our position at the forefront of engineering education, providing industry-relevant programs and hands-on experience to prepare our students for the future.

Our commitment to excellence is reflected in our many awards, showcasing our passion for innovation and the success of our graduates. Join us as we work towards a brighter, more sustainable world through engineering.

Together, we can create the unimaginable. To discover how you can be a part of this journey, contact our team today.

Sincerely,  
**Sam Tyagi, CEO**  
Australian Institute of Engineering



# VISION

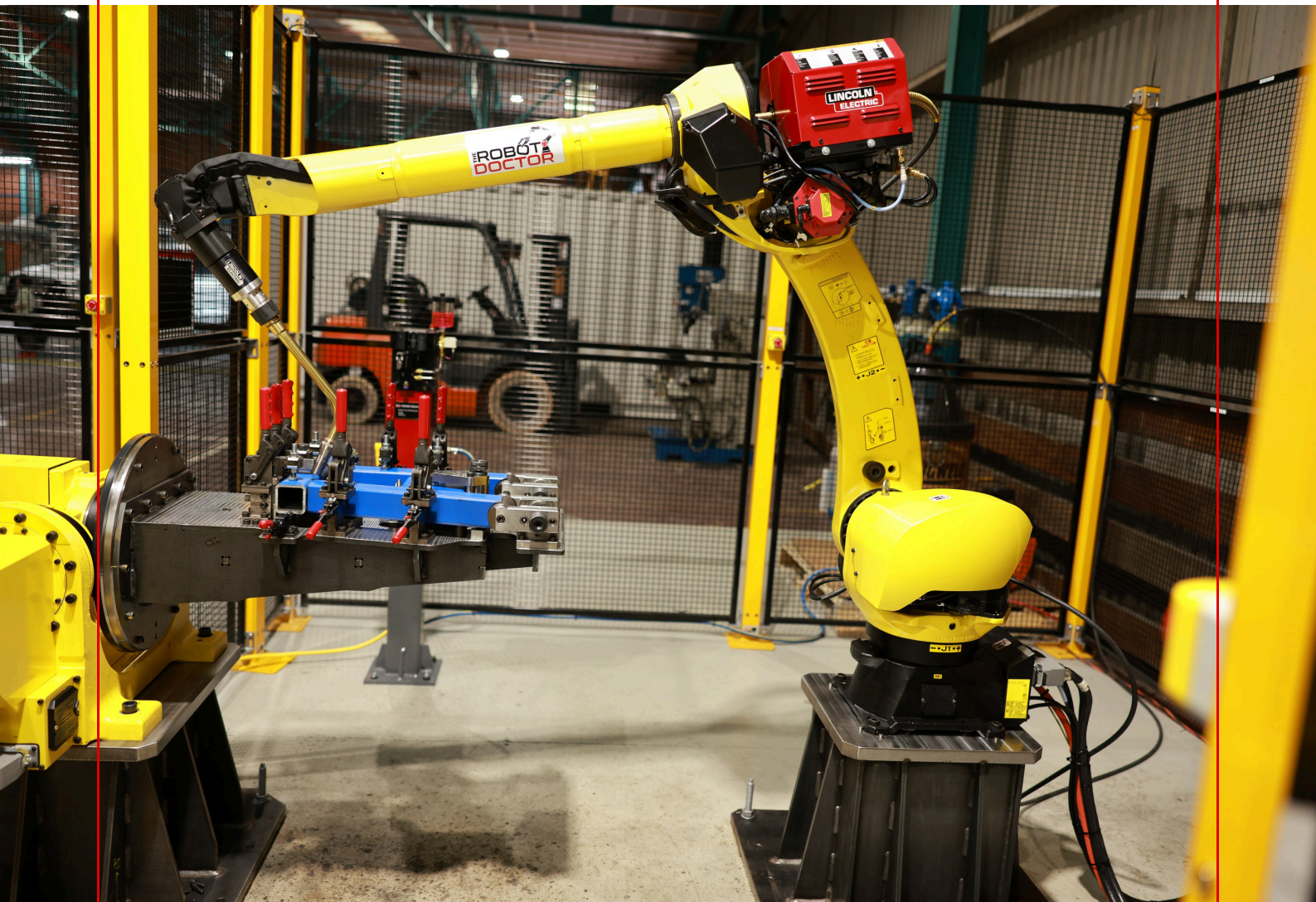
To be a global beacon of excellence in engineering education, pioneering the future of industry-centric learning, and setting unparalleled standards of academic achievement and innovation

# MISSION

To empower our students with comprehensive, industry-relevant skills and knowledge, paving the way for the next generation of world-class engineers. Through collaborations with manufacturing businesses and industry bodies, we aim to continuously evolve our courses to mirror the latest in industry trends and practices.







**01** Who we are?

---

**02** Engineering Programs at AIE

---

**03** Student Success Stories

---

**04** Innovative Journeys

---

**05** Funding & Grant Update

---

**06** Industry Spotlight: Celebrating Our Practical  
Training Partners

---

**07** Join the AIE Community

# WHO WE ARE?

The **Australian Institute of Engineering (AIE)** is a proudly Australian-owned Registered Training Organisation (RTO) committed to delivering high-quality, nationally recognised engineering and trade qualifications. We specialise in providing hands-on, industry-relevant training that prepares students for real-world success across a wide range of technical fields.

At AIE, we believe education should lead directly to employment outcomes. That's why our training is developed in close partnership with industry experts, ensuring our graduates are job-ready and equipped with the skills Australian industries demand. With modern facilities, experienced trainers, and flexible learning options, AIE empowers students to build strong foundations for their future careers—whether they are starting fresh, upskilling, or changing direction.

We are more than a training provider—we are a launchpad for future engineers, tradespeople, and technical professionals.

---

The Australian Institute of Engineering (AIE) offers a comprehensive range of nationally recognized qualifications designed to equip students with the skills and knowledge required for successful careers in various engineering disciplines. Here's a brief overview of each qualification:

## Certificate II Level:

### Certificate II in Engineering (MEM20105)

This entry-level qualification introduces students to fundamental engineering concepts and hands-on skills. It's perfect for those looking to start a career in engineering or move into an apprenticeship. The course covers basic fabrication, machining, and workplace safety—laying a strong foundation for future study or work.





## **Certificate II in Engineering Pathways (MEM20422)**

Aimed at school leavers or those new to the field, this course provides a broad overview of various engineering streams. It's designed to give students practical exposure and help them explore different career options before choosing a specialization.

## **Certificate III Level:**

### **Certificate III in Engineering – Mechanical Trade (MEM30219)**

This apprenticeship-based qualification equips students with the skills required for mechanical trade roles. It includes training in precision machining, mechanical maintenance, and machine assembly—preparing students for real-world engineering environments.

### **Certificate III in Engineering – Fabrication Trade (MEM31922)**

Ideal for aspiring boilermakers and metal fabricators, this hands-on course covers welding, metal forming, and structural fabrication. Students gain practical experience in building and repairing metal structures used in construction and manufacturing.



### **Certificate III in Marine Craft Construction (MEM30719)**

Specially designed for those passionate about the marine industry, this course focuses on constructing and repairing boats and watercraft. It blends traditional craftsmanship with modern marine manufacturing techniques.

### **Certificate III in Engineering – Composites Trade (MEM31119)**

This program trains students to work with composite materials like carbon fibre and fiberglass—commonly used in aerospace, automotive, and marine industries. It's ideal for those looking to specialize in lightweight, high-performance materials.

### **Certificate III in Engineering – Casting and Moulding (MEM31719)**

Focused on manufacturing processes, this qualification teaches students to produce metal parts through casting and moulding. It's suited for roles in foundries and metal production facilities where precision and process knowledge are key.

## Certificate IV Level:

### Certificate IV in Engineering (MEM40119)

A step up from the Certificate III level, this course develops advanced trade skills in areas such as CNC programming, fluid power systems, and technical drawing interpretation. It's ideal for tradespeople aiming to upgrade their technical and supervisory skills.

## Diploma Level:

### Diploma of Engineering – Advanced Trade (MEM50119)

Tailored for experienced tradespeople, this diploma enhances your capability to perform complex tasks, supervise teams, and contribute to process improvement in engineering environments. It includes advanced topics in mechanical and fabrication trades.

### Diploma of Engineering – Technical (MEM50222)

This qualification is designed for those pursuing technical roles such as design drafting, project support, or quality assurance. It blends theory with practical application in CAD, engineering science, and materials testing.



## Advanced Diploma Level:

### Advanced Diploma of Engineering (MEM60122)

This course prepares students for technical leadership roles. It covers mechanical design, automation, system integration, and project management—ideal for engineering associates or technicians aiming for senior positions.

## Graduate Diploma Level:

### Graduate Diploma of Engineering (MEM80122)

A prestigious and specialised qualification, this course is designed for professionals ready to take on strategic roles in engineering leadership, design, or operations. It is ideal for those aiming to lead innovation and manage complex engineering projects.

**Each of these programs is tailored to meet industry standards, ensuring graduates are well-prepared to contribute effectively in their chosen engineering fields.**



# Sailing Success at the International Fireball Australian Championships!

From 13–16 February, the International Fireball Australian Championships were held in beautiful Eden, NSW, hosted by the Twofold Bay Yacht Club. Representing the youth talent with pride, one of our **apprentices, Benjamin Garner**, competed alongside his best mate, **Sam Williamson**—they made waves in more ways than one!

The duo placed 10th overall and proudly claimed the Bombay Bowl for the highest-placed youth boat. With this achievement, they also earned the prestigious title of **Junior National Champions**, a remarkable milestone in their sailing journey.

Adding to the excitement, **Brendan Garner** (aka Dad/Boss and proud father of Benjamin!) teamed up with **Ben O'Brien** to secure an impressive 2nd place overall. Interestingly, the winning boat came from the UK and therefore was not eligible for the Australian National Champion title, which was instead awarded to Brendan and Ben!

The regatta faced some wild weather, with Thursday, Saturday, and Sunday blown out due to high winds. Only two races were completed on Friday before the wind died down entirely—just enough to count for an official series. Despite the limited racing, the event was filled with excitement, including sightseeing and a dramatic front that caused some boats to tip ashore.





TopYacht: Twofold Bay Yacht Club - 14/02/2025 5:38:23 PM

Fireball Nats

SERIES SCORES for Mixed Class HC up to Race 2 on 14/02/2025 Ties Breaking to Stage 1 & 2 Duty Score Average of 2 best scores  
(Ties: S=Score R=Race B= Bettered. Penalties: A=ARB/MED B=BFD C=DNC D=DNE E=ESP F=DNF G=RDG H=NSC I=DPI L=Late Entrant M=Q=DSQ R=RET S=DNS T=TLE U=UFP V=AVG W=DUT X=EXC Y=SCP Z=ZFP #=NoData [x.y]=Discarded)

Series Results [Mixed Class HC] for Fireball up to Race 2

Place	Ties	Sail No	Boat Name	Skipper	Crew	From	Sers Score	Race 2	Race 1
1		15122	Expensive Event	Thomas Gilard	Andy Thompson	Sheffie	3.0	1.0	2.0
2		15026	Black Pearl	Brendan Garner	Ben O'Brien	RGYC	5.0	2.0	3.0
3		15152	Not Your Ave. Rock S	Heather Macfarlane	Chris Payne	Black F	6.0	5.0	1.0
4		15153	Stay Tuned	Jalina Pivetta	Nathan Stockley	LBSC	8.0	4.0	4.0
5		15101	Bluey	Ben Schulz	Max Sturmman	Adelaic	12.0	7.0	5.0
6		15159	Bird	Jeni Danks	Peter Danks	Davey's	14.0	8.0	6.0
7	6.0S	14777	KISS	Myles Gavin	Bruno Lanati	RGYC	17.0	6.0	11.0
8		15025	Hard to Handle	Suzannah Gillam	Andrew Butler	Royal C	17.0	9.0	8.0
9		15062	The Big Bang Theory	Addy Bucek	Peter James	RGYC	19.0	3.0	16.0
10		14810	Tabo Soro	Benjamin Garner	Sam Williamson	Royal C	20.0	10.0	10.0
11	7.0S	15027	The Grey Ghost	Phil Peverell	Bruce Shand	Franks	23.0	16.0	7.0
12		14851	Wave Walkabout	Mark Jarred	Glenn Stewart	Sarato	23.0	11.0	12.0
13		15049	Scatter Gun	Nick Gunner	Simon Gunner	RGYC	26.0	12.0	14.0
14		14745	Complete Combustion	Jess Overelle	James Gaskell	LBSC	27.0	14.0	13.0
15		14826	Issues	Georgia Delaney	Conall	RGYC	28.0	19.0	9.0
16	13.0S	14608	Hot Wire	Jaemie Wilson	David Scammel	Albert S	32.0	13.0	19.0
17		14650	Mrs Palmer	Don Allen	Glenda Allen	Warna	32.0	15.0	17.0
18		14943	Rock Stars	Mark Teasdale	Andrew Kean	Cairn C	33.0	18.0	15.0
19		15011	Ballbreaker	Peter Russell	Jennifer Russell	Warna	35.0	17.0	18.0
20		15000	Raging Bull	Kevin Luff	Nicholas Luff	Mandui	40.0	20.0	20.0

## Check out some moments captured from the event:

- Sam and our sailor with the Bombay Bowl 🏆
- The official results sheet 📄
- Boats tipped ashore after the weather front 🌊
- Friday's launch into the bay for racing action 🚤



Congratulations to all the competitors for showing resilience and sportsmanship on and off the water!







## AIE Apprentice Makes Sailing History!

**Joel Beashel**, one of our talented apprentices at the Australian Institute of Engineering, has made headlines by becoming **the youngest skipper to win the Australian 16ft Skiff Championship**—an incredible achievement at just 16 years of age!

Sailing aboard IMEI with champion crew **Rob Napper** and **Trent Barnabas**, Joel held off a fleet of Olympians and national champions to claim the title in Hervey Bay. His consistency across the regatta, combined with tactical brilliance and calm composure, saw his team crowned champions—without even needing to sail the final race.

Joel carries a legendary sailing surname, representing the **fifth generation** in a family of elite sailors, including his grandfather **Ken Beashel**, who won the same title 63 years ago.

We're proud to see one of our own achieve such a prestigious milestone so early in his career—on land and at sea!



# Apprentice Sets Sail on a Unique Living Journey!

While many young Australians are grappling with the housing crisis, **Luke**, one of our apprentices based in South Australia, has taken a truly original path—**moving onto a 100-year-old paddle steamer!**

Currently travelling down the iconic **Murray River**, Luke has made the historic vessel his temporary home while he helps restore it to its former glory. The ambitious project blends his trade skills with a passion for heritage, offering hands-on experience in a truly one-of-a-kind setting.

This floating lifestyle is not only cost-effective, but also a unique learning opportunity—proving that sometimes, the best classroom is out on the water.

Luke's journey is a testament to the creativity, resilience, and adventurous spirit of young tradespeople today. We're proud to see one of our own thinking outside the box—while literally living on one!

 **Watch the full story here:** [Luke's Paddle Steamer Journey](#)

## Exciting News: Tasmania Funding Application Underway!

We're pleased to share that we are currently in the process of applying for **training and education funding in Tasmania**. This funding opportunity represents a significant step toward expanding access to quality engineering and trade education in the region.

If successful, the funding will allow us to offer more **subsidised training options**, open new **pathways for apprentices and upskilling workers**, and increase our support for local industries in Tasmania.

We're committed to delivering nationally recognised, hands-on training that meets industry needs—and this funding could help us bring that same impact to more communities across the state.

**Stay tuned for further updates as the application progresses!**





# Industry Spotlight: Celebrating Our Practical Training Partners

## Recognising Industry Support for Real-World Learning

At AIE, we are proud to partner with industry leaders who support our mission to provide hands-on, career-ready training for our apprentices. We would like to highlight the invaluable contributions of **Milwaukee** and **Allnex**.

- **Milwaukee:** A leader in innovative tools and equipment, Milwaukee has generously provided state-of-the-art gear and ongoing technical support that empowers our students to train with the tools used by professionals in the field.
- **Allnex:** As a global producer of industrial coating resins, Allnex offers not just technical insights but also site visits and mentorship opportunities, bridging the gap between education and industry.

We thank these partners for their commitment to education and workforce development. Their support ensures our apprentices graduate with skills that are both current and highly sought after.

# Join the AIE Community!

Whether you're a student, graduate, or industry partner—there's a place for you at AIE.

Get involved by:

- Attending events and workshops
- Partnering with us for training or apprenticeships
- Sharing your story to inspire others

Follow Us on



**Let's grow,  
connect, and  
shape the future—together.**