

Thank you for joining, we'll be starting shortly.

Please note the webinar will start at 3:00pm, Australian Western Standard Time (AWST)





Download Webinar Recording Here

An Insight into EIT's Online Labs

Engineering Student Webinar

Presented By

James Theodosiadis
Project Engineer

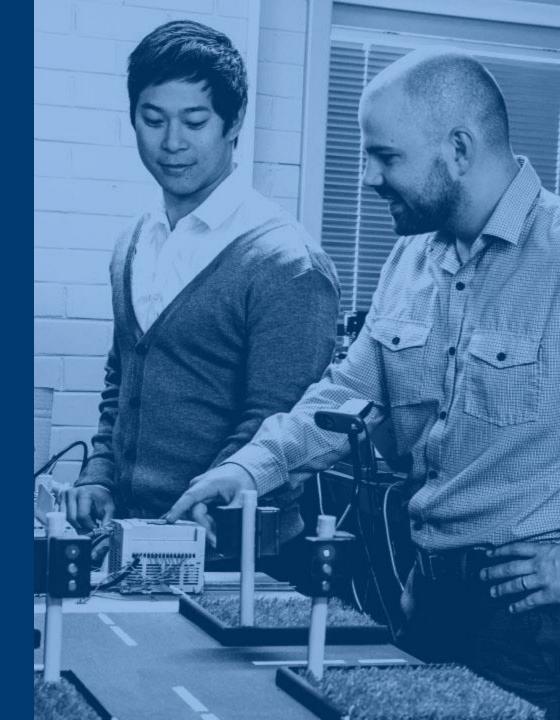
Dr. Harisinh ParmarLaboratory Manager/Coordinator

Muhammad Usman Arif
Automation Engineer



Agenda

| 1 | Welcome & Introductions |
|---|---|
| 2 | About EIT |
| 3 | Remote Labs: Introduction, Demonstrations |
| 4 | Hands-on Workshops and Work Integrated Learning |
| 5 | Q & A |



Introductions

James Theodosiadis

Project Engineer

James is one of EIT's Project Engineers and has a Bachelor of Engineering from the University of Western Australia. Over the five years that James has worked at EIT, he has extensively contributed to the research, development, and management of EIT's practical labs and workshops, for both online and on-campus engineering students.

Dr. Harisinh Parmar

Laboratory Manager/Coordinator

Harisinh is EIT's Laboratory Manager and Coordinator and has been engaged with EIT since 2019. Harisinh has a Master's Degree in Chemical Engineering from RMIT University and completed his Ph.D. in Chemical Engineering at Curtin University. He oversees EIT's lab development and the practical components of EIT's Higher Education programs.

Muhammad Usman Arif

Automation Engineer

Usman has been working for EIT since 2020 as an Automation Engineer and is engaged in supporting lab development and the practical components of EIT's Higher Education programs. He has completed his Masters in Industrial Automation and Bachelors in Electrical Engineering.



About EIT



We are dedicated to ensuring that you receive a world-class education and gain skills that you can immediately implement in the workforce.



World-Class Australia Accredited Education

Our vocational programs and higher education degrees are registered and accredited by the Australian Government. We have programs that are also recognized under three international engineering accords.



Engineering Specialists

EIT is one of the only institutes in the world specializing in Engineering. We deliver professional certificates, diplomas, advanced diplomas, undergraduate and graduate certificates, bachelor's and master's degrees, and a Doctor of Engineering.



Industry Experienced Lecturers

Our lecturers are highly experienced engineers and subject specialists with applied knowledge. The technologies employed by EIT, both online and on-campus, enable us to source our lecturers from a large, global pool of expertise.



Industry Oriented Programs

Our programs are designed by industry experts, ensuring you graduate with cutting-edge skills that are valued by employers. Our program content remains current with rapidly changing technology and industry developments.



Unique Delivery Model

We deliver our programs via a unique methodology that makes use of live and interactive webinars, an international pool of expert lecturers, dedicated learning support officers, and state-of-the-art technologies such as hands-on workshops, remote laboratories, and simulation software.

Remote and Virtual Labs



When studying at EIT, students complete practical exercises using a combination of remote and virtual laboratories and simulation software.

Practical Experience

In these remote and virtual laboratories students can control physical equipment and sensors equivalent to the traditional university engineering lab.

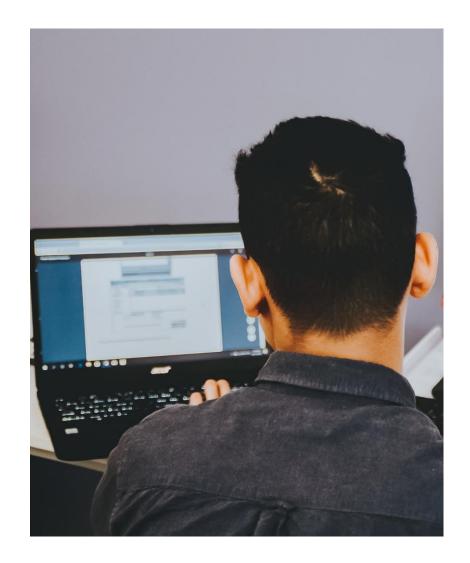
This means that even though you are studying online, you are not missing out on your hands-on, practical experience.

For the on-campus students, workshops and work integrated learning via an internship is incorporated into the student journey.

Real World Ready

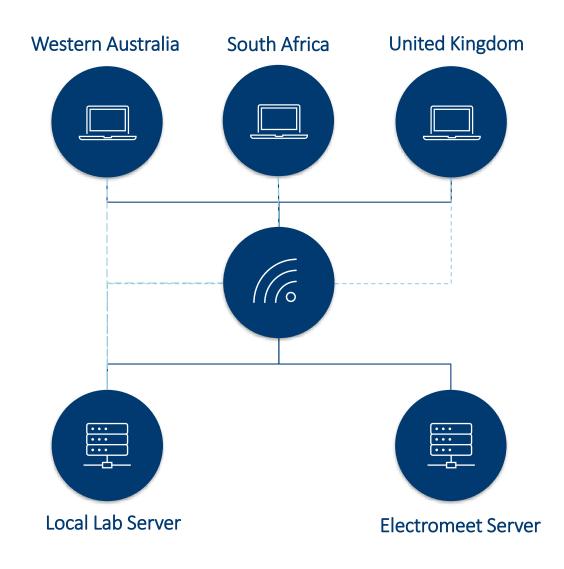
Through these hands-on exercises using simulation software, remote laboratories, practical based assignments and interactive discussion groups, students can grasp new knowledge and apply it successfully to the real world.

Each hosted engineering software and hardware can be controlled in real time; it's as simple as logging in and selecting an available lab and timeslot!



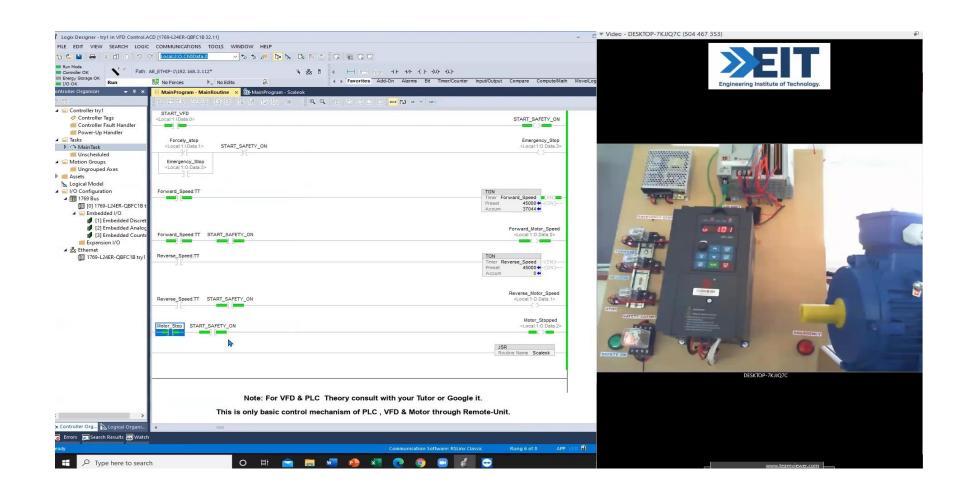
Remote and Virtual Labs





- 1. Traditional lab at a distance operating in real time
- 2. Accurate representation of current industry hands-on
- 3. Interfacing to equipment is digital and data driven
- 4. High availability and Asynchronous anytime
- Access to specialized equipment in a safe and near-limitless testing environment
- 6. No geographical barriers with diverse and global teams
- 7. Bandwidth requirements can be demanding





VFD and motor control via PLC via remote Lab



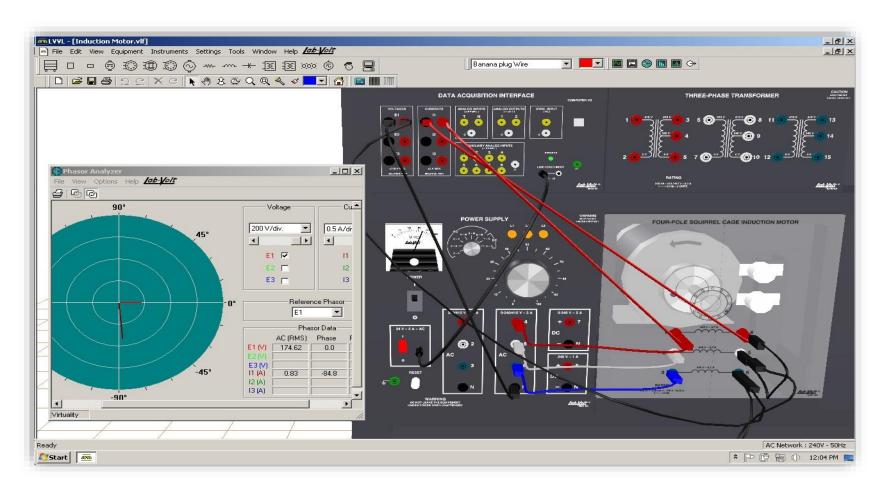
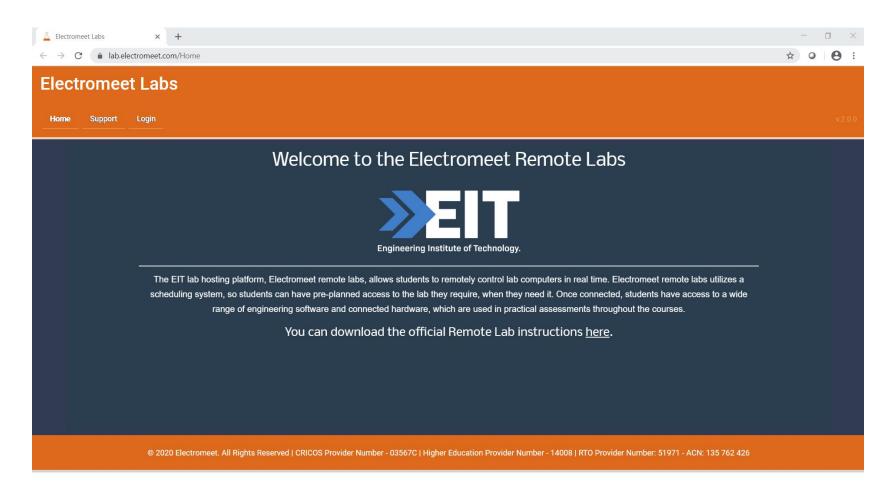


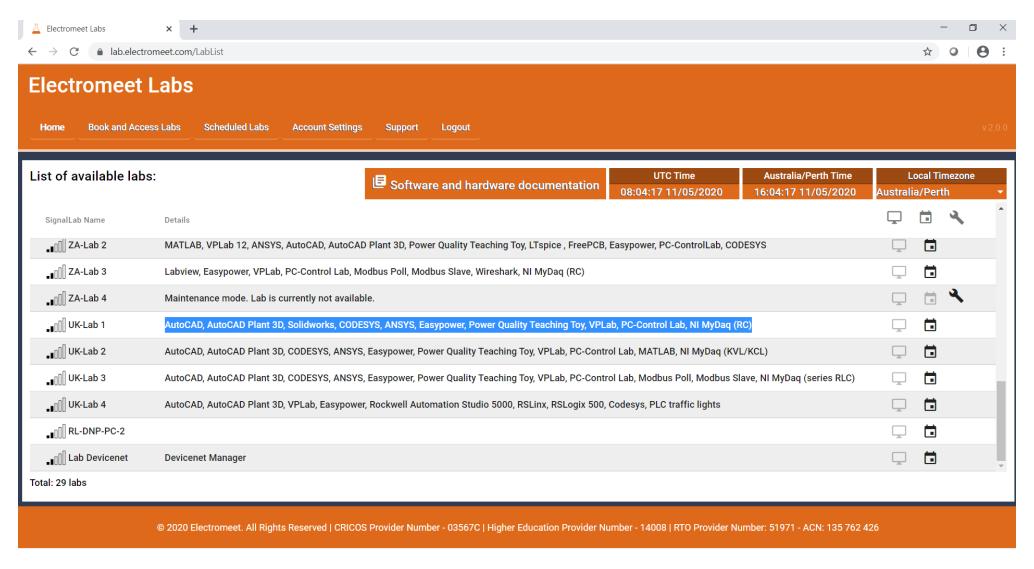
Fig: Remote Lab Practical exercise on four pole squirrel cage induction motor. Measuring phase voltage and neutral current.





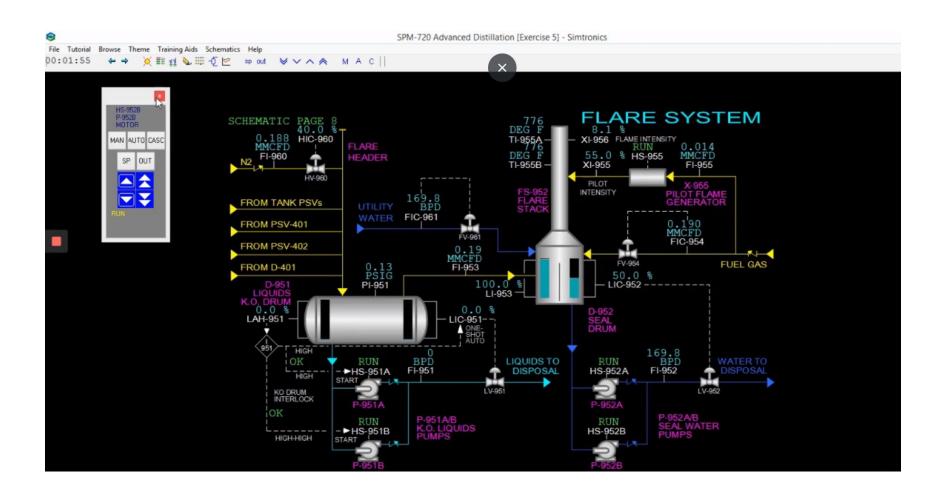
STEP 1: Login via Electromeet with your login details.





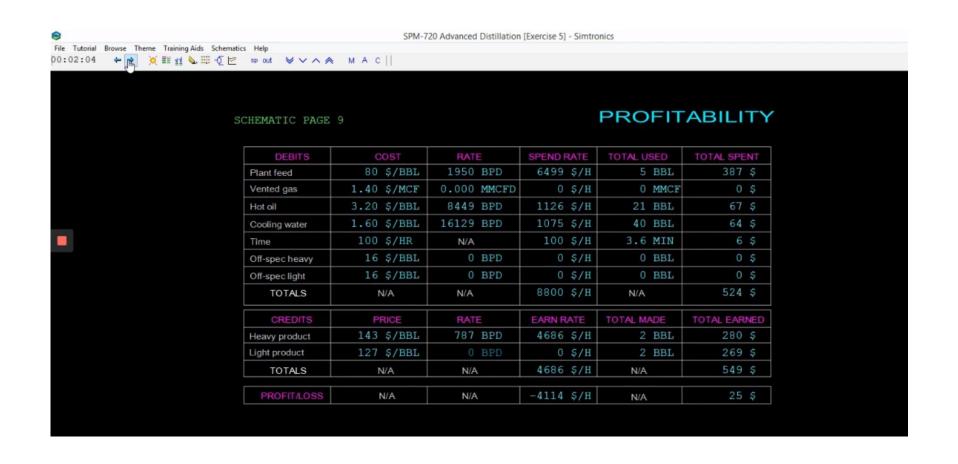
STEP 2: Book your laboratory via Electromeet.





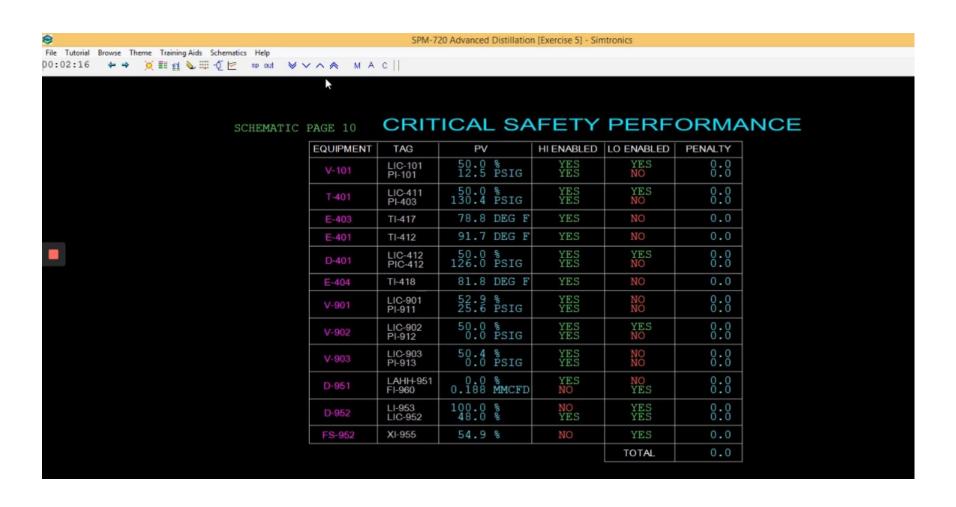
STEP 3: Begin and operate your laboratory.





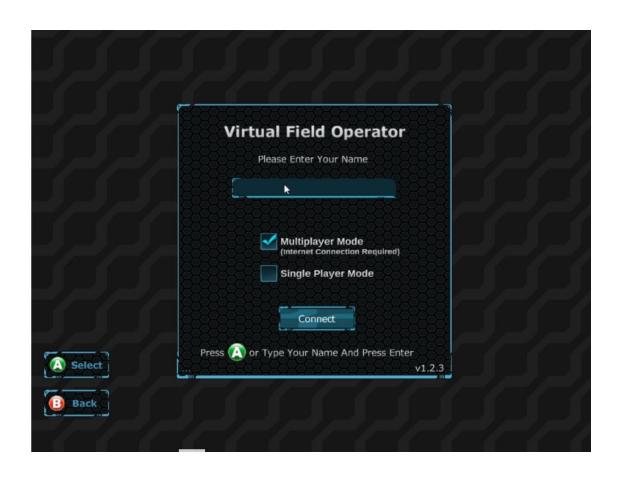
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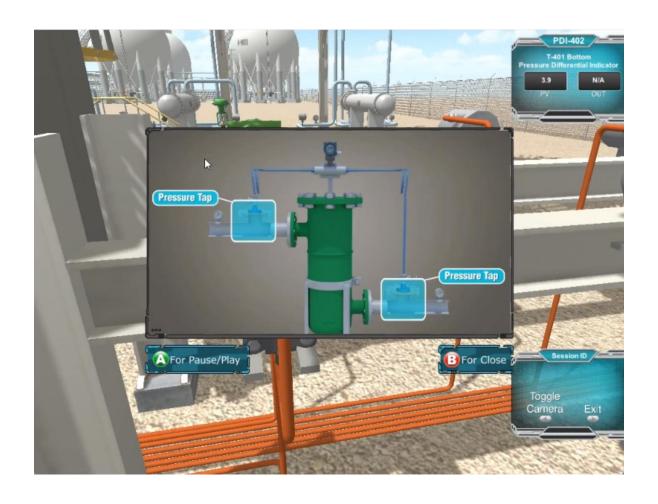
STEP 4: Continue into the simulation via the virtual laboratory.





STEP 5: Virtually walk around the plant.

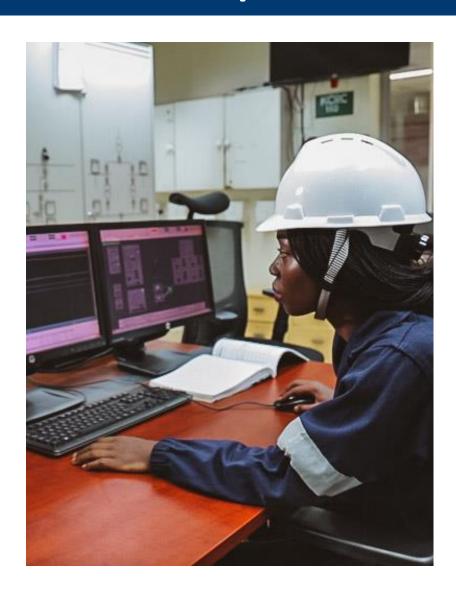




STEP 5: Virtually walk around the plant and ensure the plant equipment is operating efficiently and safely.

Mildred's Experience with EIT





Mildred Nanono was EIT's 2020 Student Ambassador.

- She was a Graduate of EIT's Master of Engineering (Industrial Automation) degree.
- Currently working at Eskom Uganda Limited as a Control and Instrumentation Engineering
- Featured in Sunday Vision's Top 40 under 40 for Engineering
- Advocate for people with hearing impairment and Women in STEM

"The simulations felt real. It felt like I was physically in the lab."





Hands-on Workshops











| WEEK | WORKSHOPS | | | | |
|------|---|----------------------------------|------------------------------|--------------------------|--|
| 1 | Measurement Science (BCS, BEE, BIA, BME) | | | | |
| 2 | Mechanics and Assembly (BCS, BME) | | Power and Control (BEE, BIA) | | |
| 3 | Construction and Surveying (BCS) | Transmission and Protection(BEE) | | Process Plant (BME, BIA) | |
| 4 | Industrial Design Workshop / Professional practice workshop | | | | |

Hands-on Workshops









Work Integrated Learning (WIL)







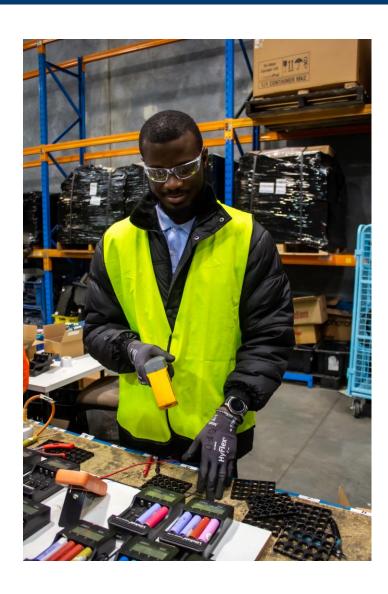






Why is Industrial Experience Important?







Exposure to real working environments



Engineering on the field



Trying something new



Personal development



Opportunity to showcase your talents, commitment, and value



Enhance CV through relevant experience

Internship & Zero Credit Units



Zero credit units - EA accreditation: Stage 1 Competency Elements - Engineering Application Ability

- BSC110& BSC210C Industrial Experience 1 & 2 240 hours of engineering work experience (6 weeks equivalent)
- BXX001-004C Hands-on workshop
- MXX001: Professional Practice Hands-on workshop
- MXX510 Professional Experience 240 hours of engineering work experience (6 weeks equivalent)

EIT Support



1. Internship-Scholarship

https://www.eit.edu.au/how-to-apply/scholarships/engineering-internship-scholarship-on-campus/

2. Internships

https://outcome.life/internship-program/

3. Conferences

https://www.events.idc-online.com/

4. Engineers Australia Events

Free Student Membership

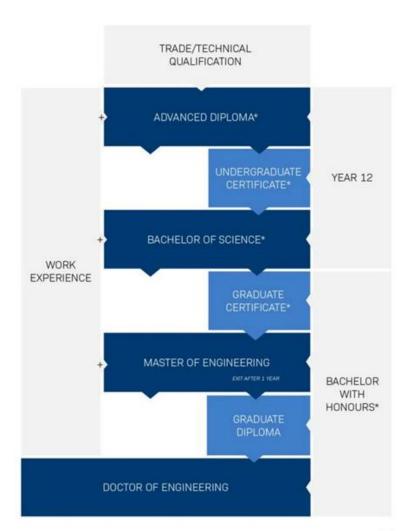
5. Guest Lecturers

Industry connection



EIT Programs – Lifelong Learning Journey





* in a congruent field

Professional Certificate of Competency

3-month, non-accredited courses that provides professional development in specific areas of interest

Diploma

12-month Diploma of Leadership and Management

Advanced Diplomas

18 - 24-month Advanced Diplomas for those wanting to formalise trade qualifications/relevant work experience

Undergraduate Certificate

6-month full time (or part time equivalent) undergraduate qualification containing 4 units

Bachelor of Science

3 years full time (or part time equivalent)

Graduate Certificate

Upskill in 6 months full time (or part time equivalent) with a short postgraduate qualification containing 4 units

Master of Engineering

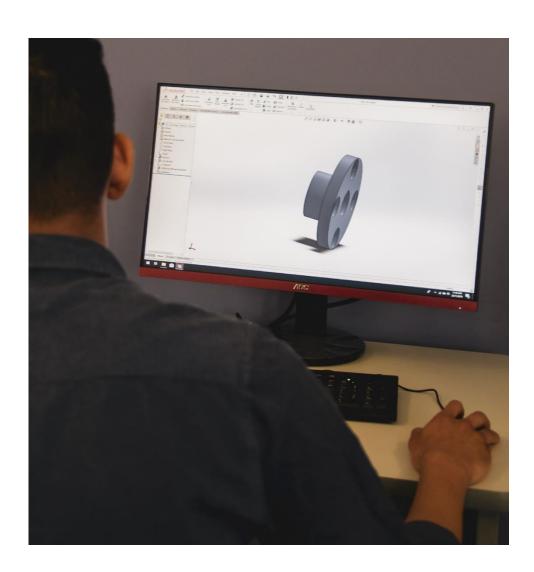
2 years part time intensive

Doctor of Engineering

Make your own contribution to the wider body of professional engineering knowledge and solve industry problems.

Delivery





As an online student, you will benefit from EIT's unique personalized synchronous delivery methodology that encourages you to advance your technical and technological knowledge, while forming global networks and balancing life and work commitments.

Our Online Learning Methodology

Our unique online delivery methodology makes use of:

- Live and interactive tutorials
- An international pool of expert lecturers
- Dedicated learning support officers, and
- State-of-the-art technologies such as hands-on workshops, remote and virtual laboratories, and simulation software

Student Support





"As an LSO it is rewarding to start a course then follow, encourage and support the students through to the end and see them achieve their qualification."

Sharon Bowler VFT LSO



"As an LSO I love supporting our students on their learning journey and ensuring their experience with EIT is a positive and rewarding one"

Emily Levy Higher Education LSO

- Learning Support Officers (LSOs) are in addition to the academic support (instructors/lecturers).
- LSOs guide the students from the onboarding process through to graduation.
- LSOs are the support, encouragement and go-to person for any question relating to a student's studies.
- One LSO is dedicated to the student for the duration of either a professional certificate or VET program.
- One LSO is dedicated to each unit in Higher Education studies at EIT.
- EIT has LSOs based in: South Africa, Switzerland, Zimbabwe, New Zealand and Australia.

Upcoming Webinars







Please see our events page: https://www.eit.edu.au/news-events/events/

Q&A





Thank you for attending.

Contact Us



Website

www.eit.edu.au



Head Office

1031 Wellington Street West Perth Perth, WA 6005



Phone

Inside Australia: 1300 138 522

Outside Australia: +61 8 9321 1702



Email

webinars@eit.edu.au

