Engineering Institute of Technology.

Inside EIT's 52932WA Advanced Diploma of Plant Engineering

6:00 AM - 7:00 AM (UTC)

Presented by:
Dr. Aravinthan Arumugam| EIT Unit Lecturer and Unit Coordinator

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Introduction – Presenter

Dr. Aravinthan Arumugam| EIT Unit Lecturer and Unit Coordinator

Dr. Aravinthan Arumugam has 19 years of experiences spread between industrial practice, engineering consultancy, research and development and academia. He obtained his BEng (Hons) in Mechanical Engineering (1st Class Honours) and PhD in Engineering from the Nottingham Trent University, United Kingdom. Aravinthan is a Chartered Engineer (CEng) with the Institution of Mechanical Engineers IMechE (UK), Chartered Professional Engineer (CPEng) with Engineers Australia and a Fellow with Advance HE, United Kingdom.

Agenda

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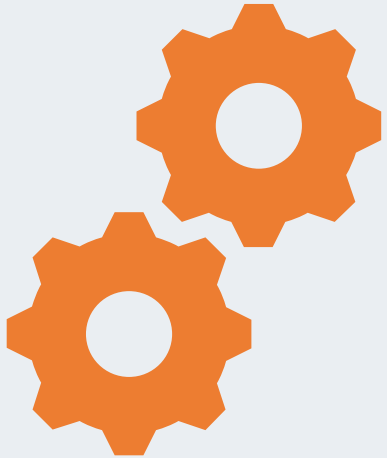
About EIT's 52932WA Advanced Diploma of Plant Engineering

Our 18 months advanced, industry-oriented diploma equips students with the knowledge and skills needed for effective plant operations. It covers key areas such as process, energy, maintenance, and safety management, along with the operation of mechanical and electrical plant equipment.

EIT's 52932WA Advanced Diploma of Plant Engineering* is **available online**.

This qualification is officially accredited within the Australian Qualifications Framework by the Training Accreditation Council (TAC), and EIT is approved by the Australian Skills Quality Authority (ASQA) to deliver this program to students worldwide.

Upon completion of this program, graduates will gain expertise in both current and emerging technologies in plant engineering.



Upon graduation, you will:

- Gain expertise in both current and emerging plant engineering technologies.
- Develop practical skills in process, energy, maintenance, and safety management.
- Build confidence in operating mechanical and electrical plant equipment.
- Learn from experienced industry professionals with real-world expertise.
- Enhance your career opportunities and earning potential through advanced engineering skills.

** (VSL approved course, maximum tuition fee for Australian students: AUD $12,112.00)*

Fields of Engineering

Industrial Automation, Instrumentation and Process Control Courses

Mechanical Engineering Courses

Electrical Engineering Courses

Civil Engineering Courses

Study Modes: Online Delivery

At EIT, online study is a unique experience.

You'll receive:

- Live, interactive tutorials led by our global expert lecturers;
- Support from our dedicated Learning Support Officers who guide you every step of the way;
- Hands-on technology through the use of remote and virtual laboratories, and simulation software.

Our unique personalized synchronous delivery methodology encourages you to advance your technical and technological knowledge, while forming global networks and balancing life and work commitments.

Program Details

- Design, implement, and optimize engineering solutions.
- Integrate complex interdisciplinary systems.

Develop skills in:

- Plant operations
- Facilities management
- Maintenance
- Safety and environmental management
- Energy systems
- Communicate technical information effectively.

Learn through:

- Industry-led webinars
- Virtual and remote labs
- Advanced simulation tools

- Graduate with practical, globally relevant engineering skills.

Learning Outcomes:

- Implement diverse engineering solutions across industries using process plant systems.
- Contribute to analysis, planning, design, and execution in areas such as plant engineering, facilities, maintenance, safety, environment, and energy management.
- Apply technical knowledge and concepts to plan, communicate, and deliver solutions in varied engineering contexts.
- Integrate interdisciplinary approaches to develop effective engineering systems.
- Manage complex plant projects efficiently, ensuring delivery on time and within budget.
- Support organizations leveraging applied technologies to enhance outputs and performance.

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Program Structure – 18 Months

Module Code	Module Title	Core/Elective
DPEIP2601	Introduction to Plant Engineering	Core
DCSBME604	Use Basic Mathematics in Engineering	Core
DPEBPC620	Use Basic Physics and Chemistry in Plant Operations	Core
DPEPM2615	Process Management	Core
DPEEM2612	Energy Management for Industrial Plants	Core
DPESM2618	Safety Management	Core
DPEIC2611	Instrumentation and Control Engineering	Core
DPEME2603	Mechanical Equipment and Technology	Core
DPEFP2604	Fluid Power Systems and Components	Core
DPEPA2606	Pumps and Seals	

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Program Structure – 18 Months

Module Code	Module Title	Core/Elective
DPEHCT605	Heat Exchangers, Compressors, and Turbines	Core
DPEPV2607	Pressure Vessels and Boilers	Core
DPEHV2608	Heating, Ventilation and Air Conditioning	Core
DPEPP2614	Process Plant Layout and Piping Design	Core
DPEEE2610	Electrical Equipment and Technology	Core
DPENA2609	Noise and Vibration	Core
DPEMM2616	Maintenance Management	Core
DPEEN2617	Environmental Engineering	Core
DPEFPE619	Apply the Fundamentals of Professional Engineering Practice	Core

Entry Requirements

Student applications are considered on a case-by-case basis and the following minimum entry requirements are to be strictly adhered to:

- Applicants must have at least a Year 12 or Cert III trade qualification or equivalent in a related field;

AND

- They must have at least 2 years' work experience in a related field

OR

- At least 4 years' work experience in a related field – subject to acceptance of an application for Credit to Entry

AND

- Satisfactory English language proficiency at an English pass level in a Senior Certificate of Education or equivalent;

OR

- A specified level of achievement in a recognized English language test such as: IELTS (or equivalent) at a score of at least 5.5 (with no individual band score less than 5.0); or equivalent;

OR

- Satisfactory completion of another course offered by EIT, or by another tertiary institution, in English.

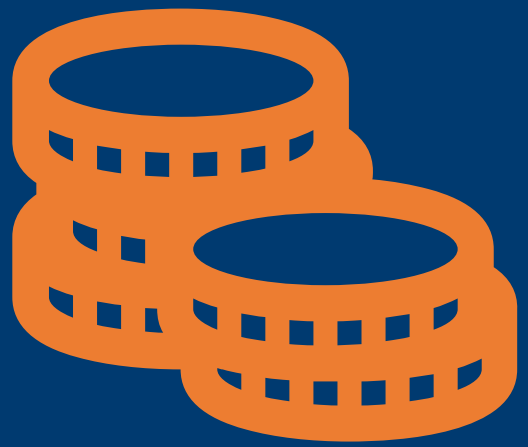
Fees & Payments

For current fees in your country visit the Fee pages and select your country of residence from the drop-down filter at the top of the page.

VSL approved course, maximum tuition fee for Australian students: AUD $12,112.00.

Payment Methods

Learn more about payment methods, including payment terms & conditions and additional non-tuition fees.



Potential Job Outcomes

Potential job roles include:

- Process Control Technician
- Engineering Supervisor
- Plant Technician
- Process Control Technician
- Engineering Supervisor
- Plant Technician

Software Used

This course may use the following software:

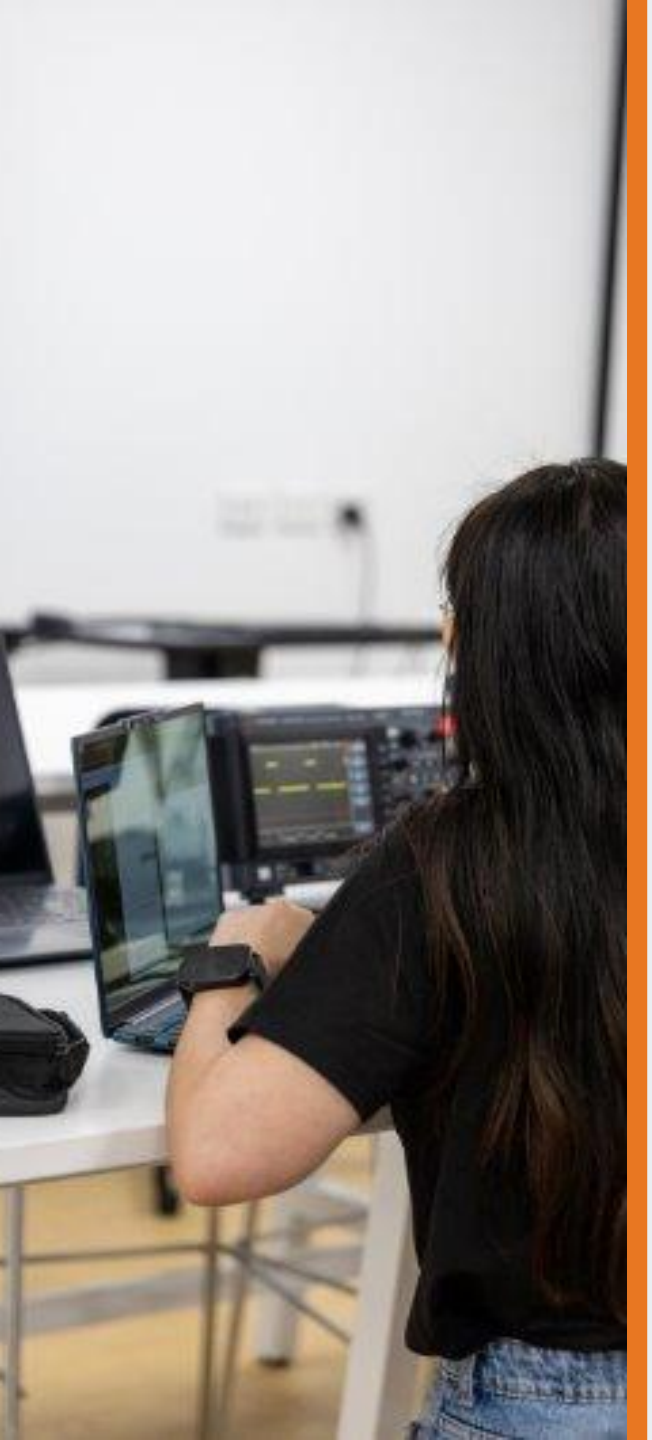
- Mesys Shaft Calculation
- PneuDraw 2.5
- Thermoptim
- Excel
- PsycPro
- DCACLab
- VPLabs
- Beamboy V2.2
- AutoCAD P&ID

Due to ongoing unit and course reviews, software may change from the list provided. Learn more about the Practical Learning at EIT here.

Time Commitment & Duration

Students enrolled in this program are expected to dedicate approximately 10–15 hours per week to live webinars, coursework, and assessments. Weekly webinars, lasting about 90 minutes, encourage discussion and provide opportunities to ask questions. A minimum of 70% attendance in these sessions is required for graduation. For those unable to attend live, recorded webinars may be viewed, with a written summary submitted to the Learning Support Officer to count toward attendance requirements.

The program is delivered online in an intensive part-time format designed to accommodate full-time work commitments, with a duration of 18 months. Recognizing that professional and personal responsibilities may occasionally affect study progress, students are encouraged to reach out to their designated Learning Support Officer for guidance if they encounter challenges with the pace or specific modules.



Student Support

Students need support, encouragement, and a go-to person. Our students are supported by dedicated Learning Support Officers (LSOs) for the duration of their studies, giving them a greater chance of success.

They provide guidance on non-content related information such as:

- Live tutorial information
- Assessment dates, times and extensions
- Grades
- Health and well-being information

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.

1. Traditional, physical labs at a distance, but operating in real time.
2. Accurate representation of current industry hands-on.
3. The interface to equipment is digital and data-driven.
4. High availability and asynchronous – anytime.
5. Access to specialized equipment in a safe and near-limitless testing environment.
6. Diverse student cohorts.
7. Bandwidth requirements can be demanding.
8. Support

Hear From A Student

Abraham Lombard | EIT Student

52932WA Advanced Diploma of Plant Engineering

Hear From A Past Student

What was happening in your career when you decided to enroll in the Engineering Institute of Technology (EIT)'s 52932WA Advanced Diploma of Plant Engineering, and what made this course stand out for you?

I am employed as a Maintenance Manager in South Africa and have accumulated more than 18 years of practical experience in the engineering field. I wanted to further develop my technical knowledge and strengthen my qualifications to support my career growth. This course stood out because it covers both Mechanical and Electrical Engineering disciplines, providing a broader and more integrated understanding of Plant Engineering than many other programmes.

Hear From A Past Student

Plant engineering is a broad field. Which module or practical topic challenged you the most, and which one ended up having the biggest impact on your confidence at work?

The subjects that challenged me the most so far were Mathematics, Physics, and Chemistry. While I enjoyed Mathematics, Physics and Chemistry expanded my understanding of the scientific principles that underpin plant operations and engineering systems. These subjects broadened my perspective and gave me a stronger foundation for solving complex engineering problems.

Hear From A Past Student

EIT's live online learning model is designed for working professionals. How did you balance study, work, and life and what surprised you most about the online experience?

As a Maintenance Foreman for a large South African company, I am on standby every second week, which can be demanding. The flexibility of EIT's online learning model was therefore extremely valuable. The ability to access recorded lectures and course materials allowed me to continue learning despite work commitments. What surprised me most was how engaging and interactive the online environment was, making it possible to learn effectively while maintaining a full-time career.

Hear From A Past Student

One of the unique parts of studying at EIT is access to remote labs. What was it like using the remote lab environment, and how did it help bridge the gap between theory and real-world plant engineering practice?

The remote laboratories provided an excellent opportunity to apply theoretical concepts in a practical environment. They helped bridge the gap between classroom learning and real-world engineering applications by allowing me to observe, analyze, and understand engineering principles in action. This hands-on experience significantly enhanced my understanding of the subjects I was studying.

Hear From A Past Student

Have you experienced any difficulties during the course? And if so, how did you manage?

Yes. Time management was one of the biggest challenges, particularly while balancing work responsibilities, standby duties, family commitments, and studies. I overcame this by establishing a structured schedule, prioritizing tasks effectively, and maintaining consistent study habits throughout the program.

Hear From A Past Student

Since completing the course, how has your day-to-day role, opportunities, or professional mindset changed?

The course has had a significant impact on my professional mindset. In my current role, I now approach plant and operational challenges with a broader engineering perspective. The knowledge gained through the program has enabled me to contribute beyond my immediate responsibilities and provide greater support to team leaders and colleagues when solving plant-related problems.

Hear From A Past Student

For someone considering the Advanced Diploma but wondering if it's worth the commitment, what would you say now, having completed the journey yourself?

I would strongly recommend the program. The course provides valuable knowledge that can be applied immediately in the workplace and contributes significantly to professional development. It not only enhances technical competence but also builds confidence, broadens career opportunities, and encourages continuous personal and professional growth.

Hear From A Past Student

What advice would you give to engineering professionals who are interested in studying this course, to ensure that they fully optimize the online learning resources?

My advice would be to stay disciplined and actively engage with all the learning resources available. Attend live sessions whenever possible, make use of recorded lectures for revision, participate in discussions with lecturers and fellow students, and do not hesitate to ask questions. Effective time management is essential, and applying the concepts learned to the real workplace situations will greatly enhance understanding and retention. The more actively you engage with the program, the greater the value you will gain from it.

Thank You!

Upcoming Course

Engineering Institute of Technology (EIT)	Start Date
52932WA Advanced Diploma of Plant Engineering	04/08/2026

Q&A

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