52857WA - Advanced Diploma of Plant Engineering

Study Online | 18 Month Program
Course Overview

This advanced diploma is delivered with a strong practical focus and gives extensive coverage in the various fields of plant engineering.

Subjects covered include plant engineering, instrumentation and control engineering, electrical equipment and technology, environmental engineering, safety management, and professional engineering practice.

Graduates will have the knowledge and skills to contribute to the capacity of the plant engineering, facilities management, and related industries to maintain their competitiveness in a global market place through the application of latest technologies, value-adding to existing products, process and services and the development of new, sustainable and innovative solutions.

The lecturers presenting this advanced diploma are highly experienced engineers from industry who have worked in the plant engineering industry. The delivery methodology — live and interactive webinars with the use of state-of-the-art technologies such as remote and virtual laboratories and simulation software — ensures you graduate with cutting-edge skills that are valued by employers around the world.

Who Will Benefit

Anyone who wants to gain a solid knowledge of the key elements of Plant Engineering to improve their work skills and to further their job prospects, including:

- Electrical Engineers
- Electricians
- Maintenance Engineers and Supervisors
- Energy Management Consultants
- Automation and Process Engineers
- Design Engineers
- Instrument Fitters and Instrumentation Engineers
- Project Managers
- Consulting Engineers
- Production Managers
- Chemical and Mechanical Engineers
- Instrument and Process Control Technicians

What You Will Gain

Specifically, graduates of the Advanced Diploma of Plant Engineering will be able to:

- Implement and utilize engineering solutions to a diverse field in any organization
- Analyse, diagnose, plan, design and execute solutions concerning plant engineering, facilities management, maintenance management, safety management, environmental and energy management
- Prepare complex technical information and concepts to plan, communicate and implement solutions to a range of engineering environment and contexts
- Integrate and solve interdisciplinary engineering systems
- Manage complex projects on time and within budget
- Manage self-autonomy to achieve objectives within an organization that has outputs based on engineering application
Why EIT?

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

**Engineering Specialist**
We are one of the only institutes in the world specializing in engineering.

**Industry-Oriented**
Our programs are designed by an international body of industry experts, ensuring you graduate with cutting-edge skills that are valued by employers around the world. Our program content will remain current with rapidly changing technology and industry developments.

**World-Class Australian Accredited Education**
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) for delivery by EIT in all Australian states. EIT delivers this program to students worldwide.

**Industry Experienced Lecturers**
Our lecturers are highly experienced engineers with applied knowledge.

**Unique Delivery Model**
Our unique online delivery methodology 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 remote and virtual laboratories, and simulation software.

Our supportive blended learning model and small class sizes encourage you to advance your technical knowledge and remain engaged in your studies while forming global networks and balancing life and work commitments.

## Program Structure

The program is composed of 17 modules and two units of competency. These modules cover a range of aspects to provide you with maximum practical coverage in the field of Plant Engineering.

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Why Online?

EIT recognizes that many of our potential students have commitments, which makes pursuing further study very challenging. Our online programs have been specifically designed to reduce the significant financial, time, and travel commitments often required by traditional on-campus programs.

Entry Requirements

To gain entry into this program, you need to meet EIT’s entry requirements. All program entry requirements are available on the program page on our website.

Time Commitment and Duration

You are expected to spend approximately 10-15 hours per week learning the program material and completing assessments. This includes attending weekly webinars that run for about 90 minutes to facilitate class discussion and allow you to ask questions. This program is run online on a part-time basis and has been designed to fit around full-time work. It will take 18 months to complete.

Software and Hardware Requirements

To access our remote laboratories, you will need:

- Operating system: Windows 7 or higher (Windows 10 recommended); or macOS 10.12 or higher (recommended)
- Storage: A minimum of 4GB memory (RAM), and a minimum of 20GB of spare disk space is recommended
- Processor: 1.5Ghz or higher, 2 cores or higher
- An 11” Monitor with at least 1024x768 screen resolution
- Internet access with at least 5Mbps download and upload speeds
- A valid personal email address
- Speakers and microphone/headset (can be built-in)
- A webcam that can recognize your face.
- Microsoft Office (Word, Excel, PowerPoint) or similar
- An up-to-date web browser

Note: An Android or iOS tablet can be used to join webinars, but a computer is preferable for some simulation software and for remote laboratory access.

Student Support

We provide you with support and encouragement from staff for the duration of your studies. You will have a dedicated Learning Support Officer, plus support from academic staff when you need it. Our class sizes are small to allow you to build rapport with lecturers and fellow students. This will enable you to ask questions and seek clarity when needed.

We understand that personal circumstances can change while you are undertaking your studies. If at any point, you feel that you are struggling with the pace of the program or finding a particular module challenging, you can contact your designated Learning Support Officer. They will be able to either provide you with extra material, assignment extensions, or put you in touch with the relevant lecturer for assistance.

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Academic Resources

We pride ourselves on providing you with quality learning resources. All teaching materials are delivered via our learning management system, Moodle, including webinar slides, and a comprehensive reading list. We also provide access to an extensive online library and subscribe to a wide range of engineering-focused library collections, including over 160 technical engineering manuals developed and published by our sister company IDC Technologies.

Online library

Our eLibrary is hosted on our learning management system and provides free access to a vast array of resources to support your study. You will receive free online access to IDC Technologies’ technical engineering manuals, as well as the international libraries we subscribe to, namely Elsevier Knovel and the IEEE STEM 45+ collection. Collectively, these libraries contain hundreds of thousands of resources, including textbooks, journals, articles, conference papers, and other learning resources such as equations and unit converters.

How to Apply

To apply, please visit https://www.eit.edu.au/cms/courses/mechanical-engineering/advanced-diploma/52857wa-advanced-diploma-of-plant-engineering

Alternatively, you can contact your nearest EIT office by telephone; please see our website for international EIT Office contact details.

FIND OUT MORE AT WWW.EIT.EDU.AU

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