

UEE62220

# Advanced Diploma of Electrical Engineering



## COURSE DESCRIPTION

This qualification covers competencies required to design and validate/evaluate electrical equipment and systems and provide technical advice/sales. Throughout the course students will build expertise in installing, testing and monitoring equipment and systems, solving problems and managing large electrical projects. The graduates will be able to work in the electrical industry.

## KEY INFORMATION

Duration	64 weeks including holidays
AQF Level	6
Course Delivery	Face-to-Face+Online Supplement

# COURSE ENTRY REQUIREMENTS

## Domestic Students

The entry requirement for this qualification is:

- [UEE30820](#) Certificate III in Electrotechnology Electrician

or

- a current 'Unrestricted Electricians Licence' or its equivalent issued in an Australian state or territory.



## COURSE STRUCTURE

The qualification is made up of a total of 1320 weighting points comprising:

- 840 core weighting points delivered; plus
- 480 general elective weighting points

All students enrolled in this qualification will undertake practical exercises and laboratory work.

## LAB WORK REQUIREMENTS

- Hold a National Criminal Police Check
- First Aid Course certificate

## CORE UNITS

Core units		Weighting Points
<a href="#">UEECD0003</a>	Apply industry and community standards to engineering activities	20
<a href="#">UEECD0004</a>	Apply material science to solving electrotechnology engineering problems	60
<a href="#">UEECD0005</a>	Apply physics to solving electrotechnology engineering problems	60
<a href="#">UEECD0010</a>	Compile and produce an energy sector detailed report	60
<a href="#">UEECD0014</a>	Develop design briefs for electrotechnology projects	40
<a href="#">UEECD0017</a>	Establish and follow a competency development plan in an electrotechnology engineering discipline	120
<a href="#">UEECD0024</a>	Implement and monitor energy sector WHS policies and procedures	20
<a href="#">UEECD0026</a>	Manage risk in electrotechnology activities	60

<a href="#">UEECD0036</a>	Provide engineering solutions for problems in complex multiple path circuits	60
<a href="#">UEECD0039</a>	Provide solutions to basic engineering computational problems*	60
<a href="#">UEECD0056</a>	Apply methods to maintain currency of industry developments	20
<a href="#">UEECD0059</a>	Write specifications for electrical engineering projects	40
<a href="#">UEECS0033</a>	Use engineering applications software on personal computers	40
<a href="#">UEEEL0015</a>	Manage large electrical projects*	40
<a href="#">UEEEL0058</a>	Plan large electrical projects*	60
<a href="#">UEEEL0062</a>	Provide engineering solutions to problems in complex polyphase power circuits*	60
<a href="#">UEERE0013</a>	Develop strategies to address environmental and sustainability issues in the energy sector	20

## ELECTIVE UNITS

UEERE0001	Apply environmentally and sustainable procedures in the energy sector	20
UETDRIS033	Solve problems in network protection*	40
UEEIC0042	Solve problems in single phase electronic power control circuits*	60
UETDRIS027	Diagnose and resolve faults in transmission systems*	60
UEECD0049	Use advanced computational processes to provide solutions to energy sector engineering problems*	80

UEEEL0043	Develop engineering solutions for induction machine and control problems*	60
UEEIC0016	Diagnose and rectify faults in a.c. motor drive systems*	60
UEEIC0017	Diagnose and rectify faults in d.c. motor drive systems	60
UEECO0003	Manage Contract Variations	40

## CAREER OPPORTUNITIES

Possible career opportunities relevant to this qualification include:

- Electrical Engineering Technician
- Electrical Engineering Technical Officer
- Electrical Engineering Design Draftsperson
- Electrical Engineering Drafting Officer

## PATHWAYS FOR FURTHER EDUCATION

This qualification provides a pathway for students to continue their studies in the tertiary domain and study Bachelor of Engineering.

### COURSE FEES

AUD\$ 8600

### Enrolment Fees

AUD\$ 200

### Material Fees

AUD\$ 2,800

## UNIQUE STUDENT IDENTIFIER (USI)

### What is a Unique Student Identifier (USI)?

A USI is your individual education number for life. It also gives you an online record of your vocational education and training (VET) undertaken in Australia. If you're at university, TAFE or doing other nationally recognised training, you need a USI. Without one, you can't get Commonwealth financial assistance or your qualification or statement of attainment.

It is a requirement that all students in Australia have a Unique Student Identifier (USI). The USI will be a lifelong number which will enable your records and results to be collected in an online system. By having a USI, you will be able to access your training records and results (or transcript) whenever you need to. We explain this here and will cover the detail again at induction to the RTO. You must have a USI before an RTO can Issue a Certificate or a Statements of Attainment, unless you fall into one of the exempt categories. For further information on USI exemptions, please refer to: <http://www.usi.gov.au/Pages/exemptions.aspx>

The Department of Industry has developed the following video to help students access a USI: <http://usi.gov.au/students/Pages/default.aspx>

If you are unsure or unable to apply for a USI, we can apply for one for you by completing our USI form and giving us permission to apply for it on your behalf. Your Unique Student Identifier (USI) contains personal information, contact details and your training records and results. The USI system has been designed to keep this information safe and secure and is only accessed by the organisations and employers you to choose to have access to your records.

## HOW TO GET A USI (FOR AUSTRALIAN STUDENTS)

### 1. Go to the USI Website

- Visit <https://www.usi.gov.au>

### 2. Click "Create USI"

- You'll be asked if you're creating it for yourself or someone else.

### 3. Provide Identification

You'll need one form of valid ID, such as:

- Australian Passport
- Medicare card
- Driver's license
- Birth certificate

- Visa (with non-Australian passport for international students)

#### **4. Enter Your Details**

These must match your ID exactly:

- Full legal name
- Date of birth
- Country and place of birth
- Contact details (email or phone)

#### **5. Create a Password & Check Answers**

Set up security questions and a password for future logins.

#### **6. Submit and Get Your USI**

Your USI will be issued immediately and sent to your email or phone.