



Certificate IV in Electrical - Instrumentation – UEE40420

Course Description:

The Certificate IV in Electrical - Instrumentation – UEE40420 course provides you with the skills and knowledge to select, install, commission, fault find and maintain equipment and systems for the control of plant, machines and processes.

Duration and Mode of Delivery:

Stage 1: Theory

Theory completed online self-paced. Hours vary pending required units per students (approx. 70hrs pending electives selected).

Stage 2: Practical – 1 week (Up to 2 weeks)

Practical completed in our Brisbane, Sydney or Melbourne training centre. Intensive practical assessment requiring students to utilise our live functioning equipment to meet the requirements of the training package and gain valuable hands on experience. Students book for 1 week practical and have the option to book a second week if required. We have reduced our maximum course numbers to ensure all students gain the maximum quality.

Course Entry Requirements and Accreditation:

*Students must hold UEE30820 Certificate III in Electrotechnology Electrician or a current 'Unrestricted Electricians Licence' or its equivalent issued in an Australian state or territory prior to enrolling.

This is a Nationally Recognised course with successful students receiving a UEE40420 - Certificate IV in Electrical - Instrumentation Qualification.

Possible roles for this qualification: Instrument Fitter, Instrument Technician, Plant Instrument Technician, E&I Technician, I&E Technician, Instrument Technician, Plant Operator, Process Technician & Maintenance Technician.

Course Inclusions:

Volt Edge will provide the following:

- Training and assessment course material
- Online student portal access
- Workbooks are available online at no cost or can be purchased for \$100 +GST
- Use of all required practical equipment

Each Student is to:

- Submit the required prerequisites prior to commencement of the course – It is your responsibility.
- Have access to a stable internet and computer or laptop with Microsoft Office applications as required.
- Have basic computer skills to undertake and complete the assessments.
- Complete and submit the required assessment and attend the practical.
- Review and comply with the conditions detailed in the [Student Handbook](#).

Units of Competencies:

| Unit Code | Unit Name |
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| UEECD0010 | Compile and produce an energy sector detailed report |
| UEECD0024 | Implement and monitor energy sector WHS policies and procedures |
| UEECD0027 | Participate in development and follow a personal competency development plan |
| UEERE0015 | Implement and monitor energy sector environmental and sustainable policies and procedures |
| UEEIC0047 | Use instrumentation drawings, specifications, standards and equipment manuals* |
| UEEIC0041 | Solve problems in pressure measurement components and systems* |
| UEEIC0038 | Solve problems in density/level measurement components and systems* |
| UEEIC0039 | Solve problems in flow measurement components and systems* |
| UEEIC0043 | Solve problems in temperature measurement components and systems* |
| ELECTIVE OPTIONS (120 points required): | |
| Stream 1 | |
| UEEIC0018 | Diagnose and rectify faults in digital controls systems* (60 points) (**Must do in Stream 1) |
| UEEIC0021 | Find and rectify faults in process final control elements* (40 points) |
| UEEIC0022 | Install instrumentation and control apparatus and associated equipment* (20 Points) |
| UEEIC0023 | Install instrumentation and control cabling and tubing* (20 Points) |
| Stream 2 | |
| UEEIC0015 | Develop, enter and verify word and analogue control programs for programmable logic controllers* (60 points) (**Must do in Stream 2) |
| UEEIC0013 | Develop, enter and verify discrete control programs for programmable controllers* (60 points) |
| UEEIC0031 | Set up and configure human-machine interface (HMI) and industrial networks* (60 points) |

To enrol into this training please view our website or contact our team at training@voltage.com.au