



## **Certificate IV in Electrical - Instrumentation UEE40420 & Certificate III in Instrumentation and Control UEE31220**

### **Combine both our Certificate IV in Electrical - Instrumentation- UEE40420 & Certificate III in Instrumentation and Control - UEE31220 Courses**

Do you want to upskill and be more employable? Why not enrol in both of the above qualifications and complete theory online self-paced and up to 2 weeks practical in total to gain both Qualifications on successful completion.

#### **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.

The Certificate III in Instrumentation and Control – UEE31220 course provides you with the skills and knowledge to select, install, set up, test, fault find, repair and maintain systems and devices for measurement and recording of physical/chemical phenomenon and related process control.

#### **Duration and Mode of Delivery:**

##### **Stage 1: Theory**

Theory completed online self-paced. Hours vary pending required units per students (approx. 190hrs pending electives selected).

##### **Stage 2: Practical – 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.

#### **Course Entry Requirements & Outcomes:**

\*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 and a UEE31220 - Certificate III in Instrumentation and Control. Possible job titles and roles relevant to this qualification include Instrument Fitter, Instrument Technician, Plant Instrument Technician, E&I Technician, I&E Technician, Instrument Technician, Plant Operator, Process Technician & Maintenance Technician.

# Units of Competencies:

Certificate IV in Electrical – Instrumentation – UEE40420	
Unit Code	Unit Name
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*
<b>ELECTIVE OPTIONS (120 points required):</b>	
<b>Stream 1</b>	
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)
<b>Stream 2</b>	
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)
<b>Certificate III in Instrumentation and Control – UEE31220</b>	
Unit Code	Unit Name
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*
UEEIC0029	Set up and adjust PID control loops*
UEEIC0023	Install instrumentation and control cabling and tubing*
UEEIC0022	Install instrumentation and control apparatus and associated equipment*
UEEIC0030	Set up and adjust advanced PID process control loops*
UEEIC0021	Find and rectify faults in process final control elements*
UEEIC0031	Set up and configure human-machine interface (HMI) and industrial networks*
UEEIC0013	Develop, enter and verify discrete control programs for programmable controllers*
UEEIC0048	Verify compliance and functionality of instrumentation and control installations*
<b>ELECTIVE OPTIONS (See our website for a full list)</b>	
UEEIC0004	Calibrate, adjust and test measuring instruments*
UEEIC0046	Troubleshoot process control systems*
UEEIC0015	Develop, enter and verify word and analogue control programs for programmable logic controllers*
UEEIC0018	Diagnose and rectify faults in digital controls systems*

## 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

- Submit the required pre-requisites 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](#).

To enrol into this training please view our website or contact our team at [training@voltage.com.au](mailto:training@voltage.com.au)