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RTO # 52737

# UEE40411 Certificate IV in Electrical Instrumentation



## UEE40411 – Certificate IV in Electrical Instrumentation

This nationally recognized training is aimed at qualified Electricians who would like to gain exposure in or enhance their PLC, HMI and Process instrumentation skills giving them the edge to enter into the Oil & Gas Industry or any industry of preference. Learn how the PLC interfaces with field instrumentation, how to select, install, commission, fault find and maintain electrical instrumentation.

### Prerequisites:

Applicants must hold a current Unrestricted Electricians Licence for full qualification or hold UEE30811 Cert III in Electro technology- Electricians to achieve a SoA (Statement of Attainment).

**Availability:** Visit [www.techskillsau.com.au](http://www.techskillsau.com.au) and click Online enrollments.

### Duration:

14 days of intensive training  
Part 1: Instrumentation and  
Part 2: PLC, HMI and soft skills units

### Fees:

- \$5,000
- 10% discount to past students
- 15% discount for group booking (min of 5 students).

### Course Outcome

**Full Qualification:** Students who are successfully competent in both theoretical and practical training completing all units of competency in the training package, will be awarded the UEE40411 Certificate IV in Electrical Instrumentation qualification.

**Statement of Attainment (SoA):** Students who have successfully completed one or more units of competency but do not meet the requirements for a full qualification (as specified in the training package), to Electrical Engineers and those who do not hold Unrestricted Electricians Licence.

## COURSE CONTENT:

All the units of competency for this qualification, including core and elective units, are listed below.

**Note:** UEENEEG105A - Those holding an 'Unrestricted Electricians Licence or equivalent issued in an Australian State or Territory meets the requirements of this unit and its pre-requisite requirements.

i.e. Credit is granted for all Units of competency annotated # (<http://training.gov.au/Training/Details/UEE40411>)

### Core competency standard units:

UEENEE038B: Participate in development and follow a personal competency development plan.

UEENEE124A: Compile and produce an energy sector detailed report.

UEENEE117A: Implement and monitor OHS procedures and policies.

UEENEE145A: Implement and monitor energy sector policies and procedures for environmental and sustainable work practices.

UEENEE101A#: Apply Occupational Health Safety regulations, codes and practices in the workplace.

UEENEE102A#: Fabricate, dismantle, assemble of utilities industry components.

UEENEE104A#: Solve problems in d.c. circuits.

UEENEE105A#: Fix and secure electrotechnology equipment.

UEENEE107A#: Use drawings, diagrams, schedules, standards, codes and specifications.

UEENEE137A#: Document and apply measures to control OHS risks associated with electrotechnology work.

UEENEEG006A#: Solve problems in single and three phase low voltage machines.

UEENEEG033A#: Solve problems in single and three phase low voltage electrical apparatus and circuits.

UEENEEG063A#: Arrange circuits, control and protection for general electrical installations.

UEENEEG101A#: Solve problems in electromagnetic devices and

related circuits.

UEENEEG102A#: Solve problems in low voltage a.c. circuits.

UEENEEG103A#: Install low voltage wiring and accessories.

UEENEEG104A#: Install appliances, switchgear and associated accessories for low voltage electrical installations.

UEENEEG105A#: Verify compliance and functionality of low voltage general electrical installations.

UEENEEG106A#: Terminate cables, cords and accessories for low voltage circuits.

UEENEEG107A#: Select wiring systems and cables for low voltage general electrical installations.

UEENEEG108A#: Trouble-shoot and repair faults in low voltage electrical apparatus and circuits.

UEENEEG109A#: Develop and connect electrical control circuits.

UEENEE101A: Use instrumentation drawings, specifications, standards and equipment manuals.

UEENEE102A: Solve problems in pressure measurement circuits and systems.

UEENEE103A: Solve problems in density/level measurement circuits and systems.

UEENEE104A: Solve problems in flow measurement circuits and systems.

UEENEE105A: Solve problems in temperature measurement circuits and systems.

### Group B, C – Qualification Elective Units:

UEENEE150A: Develop, enter and verify discrete control programs for programmable controllers.

UEENEE151A: Develop, enter and verify word and analogue control programs for programmable logic controllers.

UEENEE152A: Develop, enter and verify programs in Supervisory Control and Data Acquisition systems.

