



Give your trade career a boost

UEE40411 CERTIFICATE IV IN ELECTRICAL INSTRUMENTATION

Training & assessment by Project Management Vision





Supported by Government of South Australia





UEE40411 CERTIFICATE IV IN ELECTRICAL INSTRUMENTATION

COURSE DURATION 6 Days + 6 Days



COURSE COSTS (per person) \$ 4,500 OR \$ 2,000** (if eligible for WorkReady SA Funding)



LOCATION PEER 1042 Port Road Albert Park 5014

PEER



- To enhance students' PLC and process instrumentation skills
- To provide students' exposure to process instrumentation and control used in the industry
- To give an edge to enter into the chemical, oil and gas or mineral processing industry which uses PLC interfaces with HART compliant field instrumentation.



Full qualification – UEE40411 Certificate IV in Electrical Instrumentation Students will hold an unrestricted electrical license issued by a state or Territory and successfully prove competence in both theoretical and practical training, and complete all units of competency in the training package (refer http://training.gov.au/Training/Details/UEE40411), will receive the full qualification.

Statement of Attainment (SOA) - UEE40411 Certificate IV in Electrical Instrumentation

This Statement is issued to a student who has successfully completed one or more units of competency but does not meet the requirements for a full qualification (as specified in the training package) and to Graduate Electrical Engineers.



This qualification provides competencies in process and control to select, install, commission, fault find and maintain electrical and instrumentation equipment in buildings, premises, instrumentation systems and core instrumentation equipment. It includes ERAC requirements for an 'Electrician's license'.



This post-trade professional development gap training is aimed at and encourages candidates who would like to gain exposure in or enhance their PLC and process instrumentation skills. Doing this course gives them the edge to enter into the oil and gas or mineral processing industry which uses PLC interfaces with HART field instrumentation.

PRE-REQUISITES

This course is a post trade training, so usually require a current electrical license issued by any Australian state or territory.



CERTIFICATE IV IN ELECTRICAL INSTRUMENTATION



Electrical engineers who meet the pre-requisites for PLC and Instrumentation units will be issued Statement of Attainment for the units they complete successfully.



Delivered at PEER training facility or at a clients facility subject to suitability.

COURSE STRUCTURE



Blended delivery of 50% theory and 50% practical training with equipment that you are likely to see in a typical modern industrial environment with HART rated instrumentation, final control elements with PLC control system.



You will undergo one-on-one practical training with industry experienced, qualified Instrument and Control System Professional Trainers in the following areas on the purpose-built hazardous areas and instrumentation skids/ facilities with HART compliant field instruments and Allen Bradley PLC Control System:

- 1. Pressure (suppression/elevation of transmitter)
- 2. Level Radar / Ultrasonic configuration
- 3. Conductivity level configuration
- 4. Flow configuration and control including Magnetic flow meter operations
- 5. Calibration of Temperature Transmitter with RTD and Thermocouple
- 6. Program digital and analog PLC. Download, test and fault find PLC program on PLC hardware
- 7. Configuration of smart devices via HART Modem and Hand-Held Configurator
- 8. Reading P&ID, 2 and 4 Wire loop drawings and verify the drawings against as installed equipment

Small class sizes with flexible training to accommodate difficult rosters / work schedules.



- Fast tracked courses (6 days + 6 days) to allow for student's busy schedule
- All our courses have been developed in consultation with the industry experts.
- You will undergo one on one practical training with industry experienced, qualified Instrument and Electrical Professional Trainers
- Training is aligned to the requirements of latest industry trends and standards.

CERTIFICATE IV IN ELECTRICAL INSTRUMENTATION

Core Competency Standard Units All Core competency standard units to be achieved Do		
UEENEEE038B	Participate in development and follow a personal competency development plan	PMV Training
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	Electrical license
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components	Electrical license
UEENEEE104A	Solve problems in d.c. circuits	Electrical license
UEENEEE105A	Fix and secure electrotechnology equipment	Electrical license
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	Electrical license
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures	PMV Training
UEENEEE124A	Compile and produce an energy sector detailed report	PMV Training
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work	Electrical license
UEENEEG006A	Solve problems in single and three phase low voltage machines	Electrical license
UEENEEG033A	Solve problems in single and three phase low voltage electrical apparatus and circuits	Electrical license
UEENEEG063A	Arrange circuits, control and protection for general electrical installations	Electrical license
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	Electrical license
UEENEEG102A	Solve problems in low voltage a.c. circuits	Electrical license
UEENEEG103A	Install low voltage wiring and accessories	Electrical license
UEENEEG104A	Install appliances, switchgear and associated accessories for low voltage electrical installations	Electrical license
UEENEEG105A	Verify compliance and functionality of low voltage general electrical installations	Electrical license
UEENEEG106A	Terminate cables, cords and accessories for low voltage circuits	Electrical license
UEENEEG107A	Select wiring systems and cables for low voltage general electrical installations	Electrical license
UEENEEG108A	Trouble-shoot and repair faults in low voltage electrical apparatus and circuits	Electrical license
UEENEEG109A	Develop and connect electrical control circuits	Electrical license
UEENEEI101A	Use instrumentation drawings, specification, standards and equipment manuals	PMV Training
UEENEEI102A	Solve problems in pressure measurement components and systems	PMV Training
UEENEEI103A	Solve problems in density/level measurement components and systems	PMV Training
UEENEEI104A	Solve problems in flow measurement components and systems	PMV Training
UEENEEI105A	Solve problems in temperature measurement components and systems	PMV Training
UEENEEK145A	Implement and monitor energy sector environmental and sustainable policies and procedures	PMV Training

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CERTIFICATE IV IN ELECTRICAL INSTRUMENTATION



Group B & C –	Qualification Elective Units	Delivery Method
UEENEEI150A	Develop, enter and verify discrete control programs for programmable controllers	PMV Training
UEENEEI151A	Develop, enter and verify word and analogue control programs for programmable logic controllers.	PMV Training

**WorkReady South Australia Funding is available from the Government of South Australia in Adelaide and SA Region for eligible participants only.

Course cost is \$2,000**

Contact the office for further details.



Training and Assessment delivered by Project Management Vision, RTO 51178

(Enrolment through PMV only. PEER accept no responsibility for content, delivery or assessment of this course.)





