

UEE40411 - CERTIFICATE IV IN ELECTRICAL INSTRUMENTATION

WHO IS THIS COURSE AIMED AT?

The Certificate III course is aimed at those who would like to enhance their PLC, HMI and process instrumentation skills giving them the edge to work in oil & gas or mineral processing or food any other industry of preference –with a focus field instrumentation and PLC interfaces.



Australian
Qualifications
Framework 

SCOPE:

The Certificate IV in Electrical – Instrumentation provides a pathway for a licensed electrician to gain a nationally recognised qualification in instrumentation. The course provides introductory knowledge and skills in instrumentation and process automation

ELIGIBILITY FOR COURSE ENROLMENT:

Candidates must hold a current Unrestricted Electrical licence.

LOCATION

Delivered at one of PMV's national training centres (Perth and Brisbane), or at a client's facility.

COURSE DURATION

2 Weeks



QUEENSLAND GOVERNMENT FUNDING

PMV has been approved for Higher Level Skills funding. This only applies to QLD residents that do not hold a Certificate IV or higher qualification. Contact PMV to see if you are eligible.

COURSE COST

Course Cost: \$4,000.00 (GST Free) or \$1,750 with Higher Level Skills Funding

WHY CHOOSE PROJECT MANAGEMENT VISION (PMV)?

- Our courses are fast tracked (14 days) to cater for your 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
- You will be undertaking hands on practical training in the following technologies on a purpose-built instrumentation skid/ facilities *and control system, in the following format:*
 1. *Pressure (suppression/elevation of transmitter)*
 2. *Level Radar / Ultrasonic configuration*
 3. *Capacitance level configuration*
 4. *Flow - configuration and control*
 5. *Temperature (RTD / Thermocouples)*
 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 and 2 and 4 Wire loop drawings. Verify the drawings against as installed equipment*
 9. *Understanding how to test that Magnetic flow meter are operational*

TRAINING METHODS:

Blended delivery of theory and practical training with what you are likely to see in a typical industrial environment.

COURSE CONTENT:

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

I.E All units' annotated "Electrical licence" will be Credit Transferred.

(<http://training.gov.au/Training/Details/UEE40411>)

Core Competency Standard Units All Core competency standard units to be achieved		Delivery Method
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 licence
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components	Electrical licence
UEENEEE104A	Solve problems in d.c. circuits	Electrical licence
UEENEEE105A	Fix and secure electrotechnology equipment	Electrical licence
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	Electrical licence
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 licence
UEENEEG006A	Solve problems in single and three phase low voltage machines	Electrical licence
UEENEEG033A	Solve problems in single and three phase low voltage electrical apparatus and circuits	Electrical licence
UEENEEG063A	Arrange circuits, control and protection for general electrical installations	Electrical licence
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	Electrical licence
UEENEEG102A	Solve problems in low voltage a.c. circuits	Electrical licence
UEENEEG103A	Install low voltage wiring and accessories	Electrical licence
UEENEEG104A	Install appliances, switchgear and associated accessories for low voltage electrical installations	Electrical licence
UEENEEG105A	Verify compliance and functionality of low voltage general electrical installations	Electrical licence
UEENEEG106A	Terminate cables, cords and accessories for low voltage circuits	Electrical licence



UEENEEG107A	Select wiring systems and cables for low voltage general electrical installations	Electrical licence
UEENEEG108A	Trouble-shoot and repair faults in low voltage electrical apparatus and circuits	Electrical licence
UEENEEG109A	Develop and connect electrical control circuits	Electrical licence
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
Group B and 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



UEENEEI152A	Develop, enter and verify programs in Supervisory Control and Data Acquisition systems	PMV Training
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COURSE OUTCOMES:

A) Full qualification - UEE40411 Certificate IV in Electrical Instrumentation

Candidates 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.

B) 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.