



**COMBINED SKILLS  
TRAINING ASSOCIATION**  
*Electrical Industry Training Specialists*  
RTO 4525



## **UEE40420 CERTIFICATE IV IN ELECTRICAL INSTRUMENTATION**

Training to be conducted at CSTA Facility and at Project Management Vision  
**Powered by Project Management Vision**

RTO 51178 | RTO 52698

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**TOLL FREE: 1800 768 768**

Australian  
**Qualifications**  
Framework 

# UEE40420 CERTIFICATE IV IN ELECTRICAL INSTRUMENTATION



## COURSE DURATION

6 + 6 DAYS\*



## LOCATIONS

Perth, Karratha, Adelaide, Brisbane or at the client's facility



## COURSE COST

**\$ 4,500** (Perth, Brisbane, Adelaide, or at Client's facility)

**\$ 6,075** (Karratha/ Regional Delivery)

**\$ 841.52\*** (Perth/ Karratha-If eligible for PIT WA Funding)

**\$ 2,000\*\*** (Adelaide-If eligible for WorkReady SA Funding)

**\$ 1,750\*\*\*** (Brisbane-If eligible for Higher Skill QLD Funding)

## OBJECTIVES

- 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.

## OUTCOME

### Full qualification – UEE40420 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 <https://training.gov.au/Training/Details/UEE40420>), will receive the full qualification.

### Statement of Attainment (SOA) - UEE40420 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.

## SCOPE

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'.

## TARGET WORKFORCE

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 a current un-restricted electrical license issued by any Australian state or territory.
- Electrical engineers who meet the pre-requisites for PLC and Instrumentation units will be issued Statement of Attainment for the units they complete successfully.
- Each state-specific funding may have it's own eligibility pre-requisite requirements.

Please contact the office for more details.

## LOCATION

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

## COURSE STRUCTURE

### TRAINING METHOD

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.

### TRAINING CONTENT

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

### WHY PMV?

- PMV offers a small size class with flexible training to accommodate difficult rosters / work schedules.
- Fast tracked courses (6 days + 6 days\*) to allow for student's busy schedule.  
*\*If eligible for PIT WA funding, it is a requirement that all participants must have at least 3 weeks of relevant work experience to be verified by a qualified supervisor. Participants are responsible for gaining their own experience and may complete this experience before, in parallel to, or after the 6 days of training provided by PMV.*
- 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.

<b>CORE COMPETENCY STANDARD UNITS</b>	<b>DELIVERY METHOD</b>
<b>ALL CORE COMPETENCY STANDARD UNITS TO BE ACHIEVED</b>	
UEECD0027 - Participate in development and follow a personal competency development plan	PMV Training
UEECD0024 - Implement and monitor energy sector WHS policies and procedures	PMV Training
UEECD0010 - Compile and produce an energy sector detailed report	PMV Training
UEERE0015 - Implement and monitor energy sector environmental and sustainable policies and procedures	PMV Training
UEEIC0047 - Use instrumentation drawings, specifications, standards and equipment manuals	PMV Training
UEEIC0041 - Solve problems in pressure measurement components and systems	PMV Training
UEEIC0038 - Solve problems in density/level measurement components and systems	PMV Training
UEEIC0039 - Solve problems in flow measurement components and systems	PMV Training
UEEIC0043 - Solve problems in temperature measurement components and systems	PMV Training
<b>GROUP B &amp; C – QUALIFICATION ELECTIVE UNITS</b>	<b>DELIVERY METHOD</b>
UEEIC0013 - Develop, enter and verify discrete control programs for programmable controllers	PMV Training
UEEIC0015 - Develop, enter and verify word and analogue control programs for programmable logic controllers	PMV Training



\*Priority Industry Training is available from Department of Training and Workforce Development (DTWD) for eligible participants only. Training will be charged in compliance with Vet Fees and Charges Policy. The student tuition fees are indicative only and are subject to change given individual circumstances at enrolment. Additional fees may apply such as student service and resource fees. Youth / Concession rates are available. Contact the office for further details.



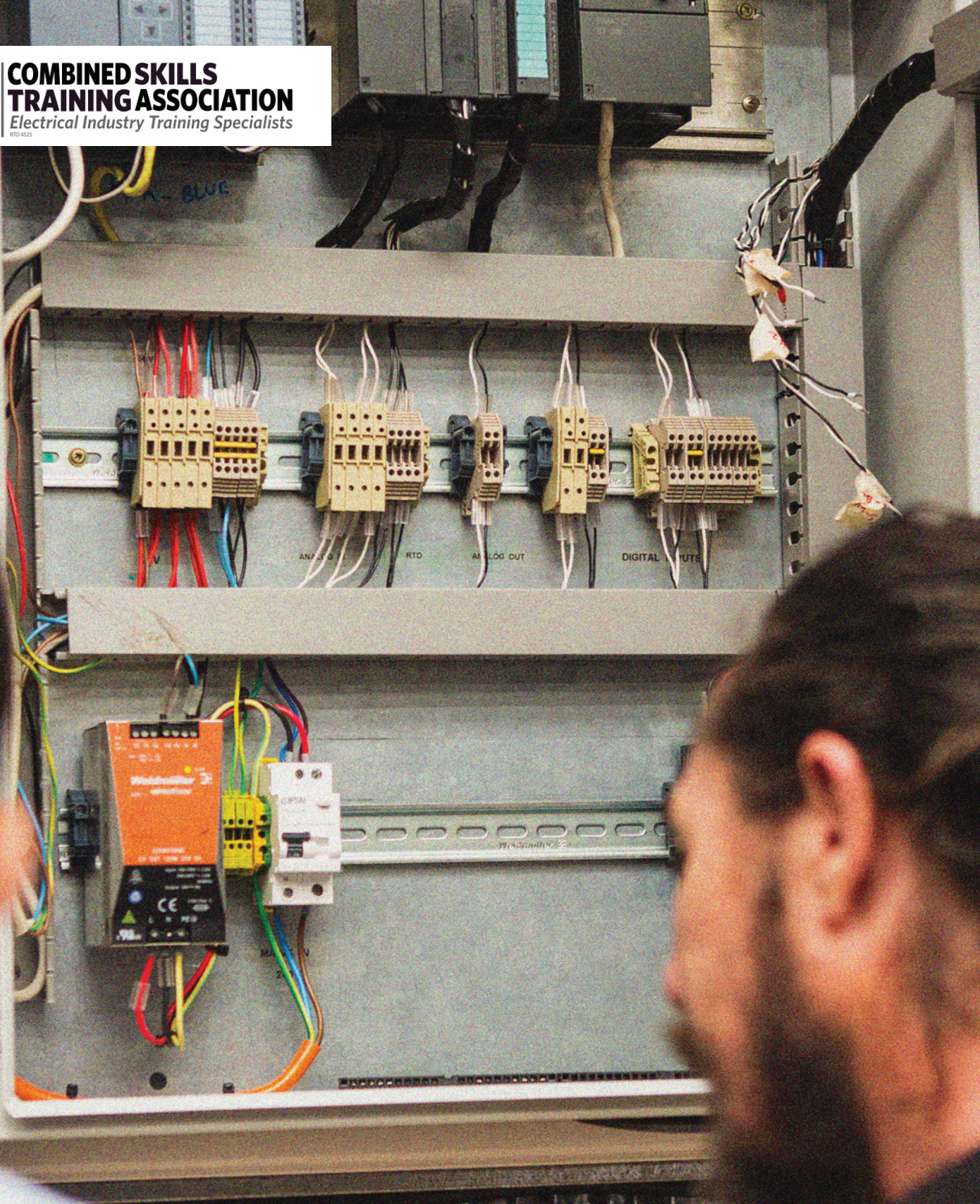
\*\* WorkReady South Australia Funding is available from the Government of South Australia in Adelaide and SA Region for eligible participants only (you may also be eligible for lower fee training (JobTrainer). Contact the office for further details.



\*\*\* Higher Skill Funding is available from the Department of Employment, Small Business and Training (DESBT) QLD Region for eligible participants only. Student must be aware that they will no longer be eligible for another government-subsidised training place under the Higher Level. Skills program once they have completed one certificate IV level or higher qualification. All units taught by PMV in this qualification cost \$58.33 each, the remaining course fees are distributed evenly to cover admin fees, service fees and student resources (this includes cost for RPL or CT for G105A and its 17 prerequisite units). Contact the office for further details.



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## Contact us

RTO 51178 | RTO 52698

### Perth

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### Karratha

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### Adelaide

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### Perth

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