

## ADVANCED DIPLOMA OF ENGINEERING TECHNOLOGY

**DURATION:** 6 Weeks face to face over 8 to 12 months.

**PRICE:** \$18,000

### SCOPE:

This qualification provides competencies to assess and manage risks, undertake design, validation/evaluation and audit functions and provide technical advice/sales related to electrical equipment, instrumentation and control systems installed in hazardous areas in the chemical, mineral processing and oil and gas industry.

### ASSESSMENT:

In-class progressive assessment, short-answer questions, work place portfolio, PLC + HMI programming, industrial networking, fault finding, design + inspection + audit work placed based exercises.

### PREREQUISITE COMPETENCIES:

The course is post-trade training, so we usually require a current electrical license (any Australian state or territory) and UEE42611 Certificate IV in Hazardous Areas – Electrical and UEE40411 Certificate IV In Electrical Instrumentation or UEE31211 Certificate III in Instrumentation and Control.

Holding of electrical license or the above qualifications is preferred but not essential. PMV can offer additional gap training to electrical workers who have industry experience but not the qualification.

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You will undergo one on one practical training with industry experienced, qualified Electrical and Instrumentation Professional Trainers/ Engineers who have hands on experience on electrical instrumentation and control system installations in hazardous areas. The training will be conducted, in the following areas, on the purpose-built hazardous areas and instrumentation skids with field instruments and control system that you are likely to see in a typical industrial EEHA installation:

1. Write specification and develop design briefs for electrical engineering projects
2. Design explosion-protected electrical systems and installations – gas/dust atmospheres/ Pressurisation/ coal mining
3. Conduct audit of hazardous areas installations — gas atmospheres
4. Plan and manage large electrical projects including contract variations
5. Apply material science and physics in solving electro-technology engineering problems
6. Provide solutions for problems in complex multiple path and polyphase power circuits
7. Ensure team effectiveness and facilitate continuous improvement
8. To broaden knowledge in understanding how processing plant architectures are put together
9. To write up plant control philosophy and project engineering specification

PMV offers a small size class with flexible training to accommodate difficult rosters / work schedules.

### AUSTRALIAN UNITS OF COMPETENCY:

For core and elective units, refer <http://training.gov.au/Training/Details/UEE50411> and <http://training.gov.au/Training/Details/UEE62111>

### FOR FURTHER INFORMATION:

Contact: [admin@pmv.net.au](mailto:admin@pmv.net.au)

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