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Certificate IV in Engineering Maintenance (Instrumentation)

COURSE CONTENT

- Credit transfer or RPL for existing qualifications and skills (upon interview and evidence)
- Review of engineering mathematics
- Technical documentation interpretation and report writing
- Control and instrumentation concepts
- Sensors, transmitters and final control elements
- Fault finding, installation and maintenance of instrumentation components
- Calibration of instruments
- Introduction to loop tuning
- Digital electronics
- Process control analyzers (optional)

DURATION

This course is 20 weeks full-time, and is available via off-campus learning to those working in the industry or a relevant industry- chemical or mining.

COURSE OBJECTIVES

- To provide practical skills and knowledge to produce drawings to design specifications for manufacture by an engineering workshop.
- To learn a range of electrical skills as well as develop your knowledge of engineering processes and principles.
- To develop skills in computing and engineering graphics.
- To understand about maths and science, materials, systems, standards and processes, safety in the workplace, effective communication and quality controls.

ABOUT THIS COURSE

The Certificate IV in Engineering specifies the competencies required for employment as a Higher Engineering Tradesperson or a Special Class Engineering Tradesperson. The job role involves application of additional skills in the learner's trade or cross skills from other trades. Job roles may include the design, assembly, manufacture, installation, modification, testing, fault finding, commissioning, maintenance and service of equipment and machinery, the fabrication of structures and assemblies, manufacture of sheet metal work, as well as use of relevant machinery, equipment and joining techniques. Machinery and equipment can include fluid power systems, stationary and mobile equipment, instruments, refrigeration, and the use of computer controlled machine tools.

TARGET GROUP

This course has been designed for managers, supervisor, operators and technicians working in the industry or a relevant industry – chemical or mining.

LOCATION

Australia