

Engineering, Process Manufacturing and Utilities

Certificate II in Engineering - Electrical

Introductory skills and knowledge required to access apprenticeship training in the electrical industry. Whilst providing an enhanced transition from school to employment, the course also provides accelerated progression for existing workers wishing to access trade levels.

Career opportunities

Provides you with the foundation skills you need to improve your prospects of securing an apprenticeship in engineering

Study mode

Gladstone On campus

Certificate III in Process Plant Operations

Skills and knowledge to work in the process plant operations sector of the chemical, hydrocarbons and oil refining industry at a skilled level. Students may learn how to operate controllers to regulate process machinery, record/analyse samples and readings, inspect maintenance work, liaise with operators to control product flow to bulk storage facilities.

Career opportunities

Process plant operator, plant supervisor within a small operation

Study mode

Off campus

Short courses: Artistic Welding

A short course covering welding which can be applied to artistic applications.

Study mode

Rockhampton On campus

Basic Welding

Knowledge required for preparing materials and carrying out routine manual metal arc welding as well as selecting and setting up welding equipment. Units covered include oxy-acetylene cutting, stick welding, MIG welding, TIG welding.

Study mode

Emerald On campus
Mackay On campus
Rockhampton On campus

Basic to Advanced Welding

Learn how to conduct welding techniques: manual metal arc, gas metal arc, gas tungsten arc, oxy welding and cutting and brazing and more.

Study mode

Emerald On campus

Intermediate Welding

This short course is designed for more experienced welders who require skills of an intermediate level. Stick welding and MIG welding units can be selected.

Study mode

Mackay On campus

Perform Welding Supervision

If you have trade experience and want to pursue supervisory or managerial roles, or progress to further studies, this short course is for you.

Study mode

Gladstone On campus
Rockhampton On campus

Welding Theory

The theory component of welding, which can contribute towards welding certification with further study. Students will learn how to apply all statutory and regulatory requirements to welding procedures; interpret all welding terms, codes and symbols; determine the effects of heat treatment on metal in relation to welding; identify the logical sequence of events involved in planning a welding operation.

Study mode

Mackay On campus

Welding Certification - Theory and Practical

Statutory and regulatory requirements, interpret welding terms, codes and symbols, effects of heat treatment, sequencing and planning, as well as practical elements in either gas tungsten arc welding, alloy steel pipe, or alloy steel pipe over 270mm diameter.

Study mode

Emerald On campus
Gladstone On campus
Mackay On campus
Rockhampton On campus

Computer Aided Drafting (CAD)

Complete a range of computer aided drafting skills from basic to advanced levels from interpreting technical drawings, simple computer aided drafting drawings and creating 3D models.

Study mode

Mackay On campus
External Off campus - distance

Computer Numerical Control (CNC)

Gain skills in CNC machine operation, monitoring, set up and adjustment, programming.

Study mode

Rockhampton On campus

Induction to Fluid Power

An introduction to the area of hydraulics systems. Fluid power is a vital part of many industries. Machinery such as tractors, harvesters and other farming equipment or earthmoving equipment can be quite complex requiring an understanding of hydraulics. In the transport and logistics industry lifting equipment uses hydraulics and the processing industry uses hydraulics in a variety of system applications.

Study mode

Gladstone On campus

Maintain Hydraulic Components/Systems

Central Queensland Institute of TAFE is offering this accredited short course to reinforce, supplement, and complement participants' understanding in the area of hydraulics and systems in the agricultural, mining, construction and processing industries with existing mechanical knowledge. People exposed to hydraulics systems in their work on a daily basis will benefit greatly from professional quality training in this area.

Study mode

Gladstone Both on and off campus





Engineering, Process Manufacturing and Utilities

Course in Conduct In-Service Safety Inspection and Testing of Electrical Equipment (Test and Tag)

Areas covered in the program include planning for inspection, inspecting and testing electrical equipment, action inspection and test results.

Study mode

Emerald On campus
Gladstone On campus

Course in Restricted Electrical

Satisfies the training requirements specified by the Electrical Safety Office when seeking a restricted electrical work licence to undertake electrical work related to a person's principal trade or calling in the workplace.

Study mode

Both on and off campus

Industrial Gas Maintenance Course (Type B Appliances)

For personnel involved with the repair, servicing, operational maintenance and management of gas equipment on commercial and industrial sites under a gas work authorisation.

Study mode

Gladstone On campus

Instrumentation/ Process Control

A short course designed for industry-based people wishing to study for an electrotechnology qualification leading to recognition at the appropriate level within industry awards.

Study mode

Off campus

