

Instrumentation

An instrumentation technician monitors environmental and atmospheric changes in industrial environments. Their work is essential to the safe and efficient operation of facilities such as chemical plants, refineries, power plants, food processing factories and pollution control organisations.

The role can also involve travelling to customers to install and maintain equipment and training employees in its use.

Learners that follow the instrumentation pathway will study electrical maintenance, mechanical maintenance, PLC and instrumentation.



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Overview

A 3 year Electrical apprenticeship programme. Maintaining the safety, integrity and effective operation of plant and equipment in industries that are part of the national infrastructure engineering sector, such as electricity generating, oil and gas refining and pharmaceuticals

Details

Control and Instrumentation Technicians will work on various types of plant and equipment commonly found throughout the Engineering Industry sectors and the Technicians can be expected to migrate through these sectors during the course of their careers.

Core responsibilities:

Position, assemble, install and dismantle plant and equipment which will include instrumentation and control of temperature, pressure and flow systems to agree specifications carry out planned, unplanned and preventative maintenance procedures on plant and equipment.

Replace, repair and/or remove components in plant and equipment and ensure its return to operational condition.

Diagnose and determine the cause of faults in plant and equipment

Calibrate and configure instrument and control systems

Undertake work in a way that contributes to sustainable development

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Course Delivery:

How will it be delivered?

During the first year of a HETA apprenticeship, learners will be based at the HETA training centre. The first 8 months, learners will undertake a multi-skilled engineering programme including Mechanical and Electrical engineering. The last 3 months will consist of undertaking specialised training in Electrical engineering.

- 4 days a week in a practical workshop
- 1 day a week in a classroom based environment underpinning knowledge to complete a Level 3 qualification.

In years 2 and 3, apprentices will spend the remainder of their time of the HETA programme at their sponsored company. During this time, apprentices will be assessed via:

- Portfolio work based assessments
- Engineering Assessor to review apprentices progression in sponsored company (help with support and mentoring)
- End Point Assessments (final assessment for an apprentice to ensure that they can do the job they have been training for- Skills, Knowledge and Behaviour)