

# Unit 20: Programmable Logic Controllers

Learning hours: 60

NQF level 4: BTEC Higher Nationals – H1

---

## Description of unit

The aim of this unit is to investigate programmable logic controller (PLC) concepts and their applications in engineering. It focuses on the design characteristics and internal architecture of programmable logic control systems, the signals which are used and the programming techniques. The learners will be given the opportunity to produce and demonstrate a programme for a programmable logic device.

## Summary of learning outcomes

To achieve this unit a learner must:

- 1 Investigate the **design and operational characteristics** of programmable logic controllers
- 2 Investigate programmable logic controller **information and communication techniques**
- 3 Investigate and apply programmable logic **programming techniques**.