

Unit 5: Electrical and Electronic Principles

Learning hours: 60

NQF level 4: BTEC Higher Nationals – H1

Description of unit

This unit covers the electrical principles that learners in many branches of electrical and electronic engineering need to understand. It builds on the elements of ac theory in *Engineering Science*. It also provides the basis for further study in more specialist areas of electrical principles.

Summary of learning outcomes

To achieve this unit a learner must:

- 1 Investigate **circuit theory**
- 2 Investigate **two-port networks**
- 3 Investigate **complex waves**
- 4 Investigate **transients in R-L-C circuits**.