**PRACTICAL ELECTRONICS NATIONAL 5**

**CONTENT**

The Course has 3 areas of study:

**Circuit Design**

In this area, candidates develop an understanding of key electrical concepts and electronic components. Candidates analyse electronic problems, design solutions to these problems and explore issues relating to electronics.

**Circuit Simulation**

In this area, candidates use simulation software to assist in the design, construction and testing of circuits and systems and to investigate their behaviour.

**Circuit Construction**

In this area, candidates gain experience in assembling a range of electronic circuits, using permanent and non-permanent methods. They develop skills in practical wiring and assembly techniques, carrying out testing and evaluating functionality.

**ASSESSMENT**

**Course Assessment:**

Component 1 – Question Paper. An external exam set by the SQA worth 30%.

Component 2 – Practical Assignment. An external activity set by the SQA worth 70%.

**HOMEWORK**

Due to the practical nature of this course, very little homework will be required. There may be some homework in the lead up to the final exam to recap on the theory aspect of the course.

**ENTRY REQUIREMENTS**

* National 5 Engineering Science
* By negotiation with the department