

### ELECTRONIC PRINCIPLES

Electronic principles is vital for everyone involved in the installation, repair, maintenance and commissioning of all electronic security systems.

#### **COURSE CONTENT**

- Understanding Ohm's Law
- Electronic symbols and components
- Recognising resistor colour codes: practical exercises
- Alternating and Direct Current (AC/DC)
- Resistance
- Using the multimeter to measure, voltage, current and resistance - practical exercises
- Practical work with series and parallel circuits
- Calculating power (Watts)
- Batteries and power supplies
- Safety devices
- Health and Safety
- Transformers
- Regulated and unregulated power supplies

# COURSE COST, DURATION AND AWARD

### BTEC ADVANCED AWARD



BTEC Level 3 (optional)

Electrical and Electronic Principles in Security Systems

1 Day

£215+VAT includes Taxcom Certification. \*\*BTEC Certification is optional et an additional cost of £95+VAT\*\*

# PAT TESTING

Portable Appliance Testing (PAT) is used to ensure that electrical equipment is safe and meets the requirements of the Electricity at Work Regulations 1989.

### **COURSE CONTENT**

- Regulations and Responsibilities
- Electrical Safety
- Classes of appliance
- Preliminary inspection of equipment
- Precautions during testing
- Using a portable appliance tester
- Essential and optional tests
- Documentation and labelling
- Practical and written assessments
- Practical reports and testing
- Fault protection
- Insulation resistance

## COURSE COST, DURATION AND AWARD

