



# Fundamentals of High Voltage Protection

**This course is designed to provide detailed theoretical and practical instruction on HV/LV electrical protective equipment including primary and secondary injection, utilising electronic, microprocessor, and electro mechanical devices.**

This training programme requires a good foundation of electrical knowledge. The course involves several practical exercises and demonstrations combined with classroom theory. A wide range of protective devices are used, including mechanical, electromechanical and microprocessor based relays.

## Content includes:

- Power system protection
- Fuse and MCCB protection
- Current and voltage transformers
- Basic fault level calculations
- Calculation of graded time settings
- Current transformer magnetisation curves
- Primary injection testing
- Classification and function of relays
- Secondary injection testing
- Transformer, Motor, Feeder and Generator protection
- Bus zone protection
- Trip circuit supervision requirements
- Useful formulae

## 5 Day Course

**Price:** £1050+VAT - per person  
(including assessment costs)



**Course Code:** HVPRO1

**Location:** Stockton

**Find Out More!**

Get course dates and advice

**Phone**  
**01642 987 978**

**Email**  
training@pass.co.uk

**Online**  
www.electricaltrainingcourse.co.uk

  
**PASS**<sup>TM</sup>  
Training and Development

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## 1 Day Course

**Price:** £1050+VAT (including assessment costs) - per person

**Location:** Stockton

### What Assessments Are There?

You'll be expected to complete a written examination as well as take part in a practical examination during this course.

### Are There Any Entry Requirements?

This course is suitable for Electrical/Plant Engineers, Supervisors, Technicians, Electricians with responsibility for the application, commissioning and/or maintenance of electrical protective equipment used on industrial electrical power systems.

Anyone attending training should also have a good level of both spoken and written English.

### Are There Any Reading Materials Required?

There are no peripheral reading materials required for this course.

### What Certification Will I Receive from This Course?

You will receive a certificate of competency after successful completion of this course.

For candidates who decide not to undertake the assessments or are unsuccessful when taking the assessments, you will receive a certificate of attendance instead.

### Additional Information

If you are interested in this course and would like to find out more about the content, other courses on offer or would like to find out more information about PASS itself and the facilities available to you, contact the training centre where an advisor will be happy to answer all your questions.

**Don't forget:** lunch is provided on all our courses along with coffee, tea and juice.



### Phone

**01642 987 978**

### Email

[training@pass.co.uk](mailto:training@pass.co.uk)

### Online

[www.electricaltrainingcourse.co.uk](http://www.electricaltrainingcourse.co.uk)

### Head Office Address

1 Alberto Street, Stockton, TS18 2BQ

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### About Us

PASS Training & Development is a fully accredited training provider offering a wide variety of health and safety and electrical course packages. PASS is accredited by many leading bodies, including NEBOSH, IOSH & City and Guilds.

