



Key Legislation: Electricity at Work Regulations 1989 | IET Code of Practice

## KEY STATISTICS



**70**

Deaths from electrical accidents in UK workplaces per year



**£1.3 billion**

Annual cost of electrical fires to the UK



**30%**

Of workplace fires caused by electrical faults



**95%**

Of electrical accidents preventable with regular PAT testing

## LEARNING OBJECTIVES

Understand the legal requirements for electrical safety under the Electricity at Work Regulations 1989

Conduct a visual inspection of portable appliances

Perform PAT testing using a portable appliance tester

Interpret PAT test results and make pass/fail decisions

## STEP-BY-STEP GUIDE

**1 Visual Inspection**  
Check for damaged cables, bent pins, cracked casings, burn marks

**2 Earth Continuity**  
Test earth continuity for Class I appliances — must be less than 0.1Ω

**3 Insulation Resistance**  
Apply 500V DC — Class I >1MΩ, Class II >2MΩ

**4 Functional Check**  
Switch on and check appliance operates correctly

