

# P.A.T. TESTING PORTABLE APPLIANCE TESTING SOLUTIONS



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TEST HOUSE  
SOLUTIONS FOR INDUSTRY



## Company Profile

Lifting and Handling Services is a leading independent Test House celebrating 21 years in business, carrying out statutory inspection and certification of materials handling and safety, processes and experience with personal attention to provide our clients with an unrivalled quality of service.

We were the first company of our kind in Ireland to develop a state of the art bespoke online safety management programme which has been developed over two decades to reflect changes in health and safety. Our clients can access a comprehensive suite of reports 24/7 surrounding statutory inspection history, plant failures, repairs and statistical analysis.



## Services Provided

Lifting and Handling Services provide the following services to our clients nationwide:

- ✓ Statutory Inspection and Certification of Materials Handling & Safety Equipment
- ✓ Calibration & Certification of Torque Measurement Devices
- ✓ **P.A.T. (Portable Appliance Testing) Solutions**
- ✓ Static Testing
- ✓ Non Destructive Testing Services
- ✓ CAD Design & Simulations for steel structures
- ✓ Product Investigation & Reporting
- ✓ Accident & Incident Investigation
- ✓ Expert Witness
- ✓ Safety Audits & Risk Assessments
- ✓ Ergonomics – Work Risk Analysis & Solutions
- ✓ Safety Training Courses
- ✓ Safety Management Consultation



## Portable Appliance Testing P.A.T.

Portable Appliance Testing (PAT Testing) has become a fundamental requirement for maintaining electrical safety equipment in the workplace.

The purpose of Portable Appliance Testing is to test any form of portable electrical equipment within your business and ensure it is fully functioning and is **SAFE** for its intended use.

The only way to ensure that all of your electrical equipment is fit for purpose is by **Portable Appliance Testing**. Electrical equipment will not always continue to function correctly and safely forever, therefore periodic inspection and maintenance on a regular basis is essential to ensure health and safety within your business.



**Comprehensive, dual voltage  
PAT with flash test**



Office  
Catering  
Warehouse  
Workshop  
Site

Portable Equipment is any appliance that is plugged in or moved from building to building, for example:

**Office Equipment:** E.g. Computers, Printers, Scanners, Fax Machine, Desk Lamp, Extension Leads etc.

**Catering Equipment:** E.g. Cleaning Equipment, Industrial Dishwashers and Vacuum Cleaners, Kettles, Coffee Machines etc.

**Warehouse Equipment:** E.g. Cleaning Equipment, Mobile Heaters, Transformers, Material Handling and Safety Equipment etc.

**Workshop and Site Equipment:** E.g. Electric Drills, Grinders, Phase Equipment, Jigsaws, Hand Power Tools etc. Materials Handling and Safety Equipment.



## Legislation

**The Safety Health and Welfare at Work Act 2005:** stipulates the General Duties of the Employer stating the duty of care of the employer includes “the design, provision and maintenance of safe workplaces”. Furthermore **Statutory Instrument 188/2001** states that “In the case of work equipment which is exposed to conditions causing deterioration liable to result in a danger to safety or health – (i) periodic inspections and, where appropriate testing is carried out” (ii) special inspections are carried out when exceptional circumstances arise which are liable to make the work equipment unsafe, including modification work, accidents, natural phenomena or prolonged inactivity; and (iii) safety and health conditions are maintained and deterioration is detected and remedied in good time”

**Section 74 of The Safety, Health and Welfare at Work (General Application) Regulations 2007** defines portable equipment as equipment, including hand-held portable equipment, which—(a) because of the manner in which it is to be used, requires to be moved while it is working, (b) is designed so that it can be moved while it is working, or c) is moved from time to time between the periods during which it is working”. **Section 81** goes on to note that **Portable Equipment** should be “maintained in a manner fit for safe use and is periodically inspected by a competent person, appropriate to the nature, location and use of the equipment”.

**Section 3.6** of the Electro-Technical Council of Ireland (ETCI) entitled **The Guide to Maintenance, Inspection and Testing of Portable Equipment (Electrical Appliances and Tools) in the workplace (ET 215: 2008)** outlines all requirements for the inspection of all portable equipment carried out by a “competent person”.



## The Importance of P.A.T. Testing

It is imperative that all electrical equipment is checked, inspected and maintained in order to prevent any accidents or injuries in the workplace. **PAT Testing provides a planned and proactive approach to this, ensuring that any potential safety problems with electrical appliances are identified and rectified before they occur.**

Lifting and Handling Services can provide a comprehensive PAT Testing Asset Management service to your business, using high specification accurate testing equipment which allows the user to verify the electrical safety of all types of appliances quickly and effectively. We can carry out any test required by your business, including flash testing, RCD trip time and dual voltage capability.



## PAT Testing by Lifting and Handling Services

Lifting and Handling Services can carry out a full audit of all electrical equipment in all sections of your business, including:

- ✓ Full asset management system for your business
- ✓ Provide all aspects of electrical testing including dual voltage testing
- ✓ Full inspection carried out on all electrical equipment
- ✓ List of all assets and locations provided and accessible to clients
- ✓ All assets issued with Serial Number and all locations recorded
- ✓ All portable appliances tagged on inspection
- ✓ Full set of Calibration Certificates provided following inspection
- ✓ Full details of maintenance and repairs identified
- ✓ Details of all equipment removed from services as a result of faults diagnosed during inspection
- ✓ Full access to all inspection reports



## P.A.T. Testing Available

Earth Continuity	
Test Currents	25A, 10A, 4A, AC
Display Rang	0.00ohm – 19.99ohm
Pass Value	User Defined
Measure Technique	4 Wire Measurement, Floating Earth
Earth Screen Continuity	
Test Currents	25A, 10A, 4A, AC
Display Range	0.00ohm – 19.99ohm
Pass Value	User Defined
Measure Technique	4 Wire Measurement, Floating Earth
Insulation Resistance	
Test Voltage	250V, 500V, DC
Display Range	0.1 Mohm – 100 Mohm
Pass Value	User Defined
Flash	
Test Voltage Class I	1500V mns
Test Voltage Class II	3000V rms
Display Range	0.05mA – 2.5mA
Pass Range	User Defined

RCD Trip Time Test	
Test Current	30mA
Display Range	0ms – 500ms
Pass Value	200ms
Protective Conductor Current	
Test Voltage	230V/110V
Display Range	0.1mA – 10mA
Pass Value	User Defined
Touch Current	
Test Voltage	230V/110V User Selectable
Display Range	0.1mA – 2.0mA
Pass Value	User Defined
Alternative / Substitute Leakage	
Test Voltage	40V AC Nominal
Display Range	0.1mA – 2.0mA
Pass Value	User Defined
Load Test	
Display Range	0kVA – 4.2kVA
IEC Lead Polarity	
Tests Performed	Live/Neutral Continuity and Polarity

Contact us for advice or a quotation at  
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