



T-SQUARED

Scope of Capabilities

An introduction to T-SQUARED Compliance Ltd.

The Team Works.



Introducing T-SQUARED



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Introducing T-SQUARED

T-SQUARED is a design & build company with an M&E Services background working as a specialist contractor for clients with strategically important facilities where quality and reliability are paramount.

Since the inception of the company in 2003, T-SQUARED has enjoyed significant and continued success and has grown to become one of the UK's foremost specialist partners in the mechanical and specialist services industry.

Our commitment to innovation, design, service and customer care has ensured that T-SQUARED remains at the forefront in our industry, counting among others leading pharmaceutical, life sciences, biotechnology, food & beverage, medical devices, aerospace, publishing and other highly serviced industries amongst our valued list of clients.

Our design & build service comes from a single and fully accountable supply source which uses a totally transparent, inclusive and personalised approach. All this is delivered by a team of highly qualified globally experienced and committed personnel.

**T-SQUARED IS LESS ABOUT WHAT WE DO.
IT'S ALL ABOUT HOW WE DO IT.**



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The Business



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Organisational Structure

T-SQUARED Group consists of three distinct types of companies, which allow the group as a whole to offer our clients a full end-to-end service from design and build, facilities services and maintenance provision to electrical compliance.

Our Design & Build companies, of which there are three nationwide, act as Specialist Contractors in the design and construction of areas such as Cleanrooms, High-Tech Laboratories and other critical service facilities where a 'turnkey' service is essential. The skills involved here also lend themselves to less technical fit-outs and refurbishments where project management skills are the key.

Our Facilities Services companies are for clients who need business critical facilities to be available and reliable for their processes. From our four centres throughout the UK in Glasgow, Southampton, Basingstoke and Swindon, our Facilities Services teams provide a 24/7 national service for key accounts across the UK. This coupled with high levels of local customer service have ensured the continued success and growth of our Facilities Services business. Whilst the majority of work undertaken by the teams is through ongoing contracts with existing clients, the team also carry out small works projects regularly for their clients.

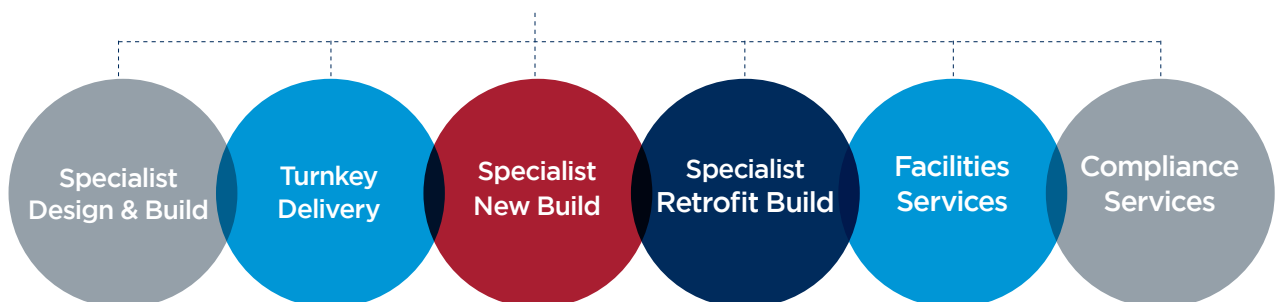
T-SQUARED Compliance provides a comprehensive range of design, installation, testing and maintenance compliance services. From office environments to large scale multi-site industrial operations, our commitment to innovation, service, and customer care remains the same. We work closely with our clients to deliver the highest standards of workplace compliance, delivered by a team of highly qualified engineers and committed personnel.

Building on a history of providing specialist design and build services to industries such as biotechnology and aerospace, where quality and reliability are paramount, T-SQUARED Compliance can provide a comprehensive range of design, installation, testing and maintenance compliance services.

Through adopting a dedicated and strategic approach across the group we aim to become the preferred supplier for blue-chip companies throughout the UK, for the following specialist services:



End to end management and maintenance of business critical projects and facilities through a single, fully accountable supply source.



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Owner Managed Private Company

T-SQUARED is privately owned with all Directors playing a key part in the day to day running of the business.

We operate a shared equity scheme that enables us to attract the best people and to keep them for the long term. This structure guarantees key members of management have significant equity holdings in the company where they work, thus giving an added incentive to maintain and grow the business.

The bonus element for T-SQUARED is that these managers have motivation levels such that management from above is seldom required and T-SQUARED Group Directors are freed up to take on engineering roles and to ensure key accounts are provided with the correct level of service.

Recruiting and retaining the right people has been the key in achieving successful growth whilst maintaining exemplary standards of customer service within a safe working environment. T-SQUARED has a world-class management team with extensive experience of designing, constructing and maintaining critical services facilities both nationally and internationally.

Financial Strength

In this current climate of financial uncertainty, T-SQUARED is one of the few companies who can confidently claim solid financial credentials. A combination of operating a low overhead business model combined with tight financial controls has seen T-SQUARED achieve organic growth year on year from a standing start in 2003. Our turnover of £12.5M in 2010/11 has also been achieved without the assistance of bank funding.

Whilst our core services of design and project management are delivered through our 75 strong team, T-SQUARED operates a low overhead business model through outsourcing non-core activity. We fully understand the value of outsourcing and utilise it where applicable to ensure we retain the lowest overheads possible through eliminating 'non productive time'. This in turn ensures we retain our competitive advantage within the marketplace.

Working with us, you can be confident of our financial stability and ability to deliver your project from concept to completion.

T-Squared = Financial Security



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Business Model

The T-SQUARED business model has been built primarily around our ability to provide an 'end to end' service through our Design & Build and Facilities Services teams which create a close client/contractor relationship that is seldom generated through traditional tendering. In order to maintain this relationship, T-SQUARED delivers consistently high levels of quality and customer care both during and after each project.

Trust x Teamwork = T-SQUARED

Trust is essential in establishing and maintaining customer confidence. It sits at the core of our culture of workplace safety and striving for quality. It provides the freedom and security in which individuals can be responsible for achieving their goals and are rewarded for their attainment.

Teamwork is recognised as the main component in our sustained growth. No organisation can survive without clear and shared sense of direction, with every member being committed to working together toward common goals.

We call it the 'multiplier effect' and it's what sets us apart from our competitors and has led us to develop long-term relationships where 90% of our business comes from existing clients.



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External Accreditation - Quality Management: ISO9001

We recognise that in today's marketplace our customers demand and expect excellence. T-SQUARED stretches performance beyond this point to being consistently outstanding. More than one company can deliver an excellent result but if we are outstanding we are able to operate ahead of the competition. Striving to set new standards has been instrumental to the ongoing success of T-SQUARED and underpins every aspect of our service delivery.

Having industry recognised credentials affords our clients peace of mind they are working with a company who have industry recognised standards ISO9001 (Quality) and ISO14001 (Environment).

T-SQUARED embraces a culture of responsibility that embeds quality awareness through every aspect of our organisational processes. Our ongoing commitment to employee and site safety, quality control and quality assurance, customer satisfaction and continuous improvement is reflected in our ISO9001 (Quality) accreditation, which has been held since December 2004.

Our Quality Management System was introduced to provide the framework for how T-SQUARED consistently meet and exceeds customer quality requirements, continually improves operations and determines if our work methods are both efficient and cost effective for our clients.



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External Accreditation - HSE: ISO14001

Our commitment is to ensure working with us would mean that you would be supported with services delivered to the cutting edge of HS&E, corporate governance, business efficiency, staff and customer welfare best practice. The combined subjects of health safety and environment in the workplace are at the forefront of all organisations in today's climate, and rightly so, as to ignore or disregard them can have devastating commercial, social, ethical or moral results, ultimately affecting everyone directly or indirectly.

With ever changing and challenging legislation in these fields it is our goal to stay one step ahead. We do this by employing specialist external consultants to manage our health and safety. These issues are non-core business but are of significant importance. They are very complex areas with specific and dynamic legislation.

Our employees are without doubt our most valuable assets. We make considerable investment in people & we aim to protect our investments. As we understand our employees are our most valuable assets because of the knowledge they possess, they are fundamental to the success of our business. Their effective development is therefore paramount which is why we rely on specialised services from our industry recognised HS&E partners to help design training programmes that suit both our needs and our customers. We receive custom built modular training courses from our specialist partners to ensure our staff have all of the knowledge necessary to enable them to always work to best practice.

We receive class leading process, procedures, training and consultation which, combined, allows us deliver consistent high standards.

Our HS&E partner is one of the UK's leading health, safety and environmental specialists providing us with services we can depend on, beyond legal compliance, structured, clear and easily followed procedures, systems that deliver reliable consistent control for managing hazardous substances, updated to take advantage of the latest technological advances.

T-SQUARED takes its commitment to the environment and sustainability very seriously. The environmental activities of our business are not restricted only to those associated with our design and build processes but also to the type of suppliers we engage with, the products we provide / develop and the added value services we can offer to our client base and beyond.

Our clear commitment to providing environmentally and ethically sound products and services is demonstrated by the certification of our Integrated Management System to ISO 9001:2000 (Quality) and ISO 14001:2004 (Environment) since September 2009.



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Our Core Service Offering



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Our services at a glance



Portable Appliance Testing



Risk Management



Thermal Imaging



Drawings



Power Quality Surveys



Fixed Wire Test & Inspection



Emergency Lighting Testing



Mains Power Analysis



Defect Repairs / Remedial Action



Electrical Installation

Our Core Service Offering

Portable Appliance Testing

Portable Appliance Testing is an important part of ensuring workplace safety, and all business premises are required by Law to ensure appliances are safe and fit for use. T Squared Compliance can carry out inspection and testing of all portable appliances to ensure you comply with the latest health and safety legislation.

Our specialist engineers will first undertake visual inspections and assess the environment to ensure testing can be carried out safely, with no risk to themselves or others. A series of electrical tests are then completed to establish either a 'Pass' or 'Fail' result, and each appliance labelled accordingly. Our engineers undergo intensive training and are equipped with state-of-the-art test instruments, achieving repeatable results without damaging the equipment or appliance.

Upon completion of all testing a full validation report will be provided for your health and safety records. Our engineers are multi-skilled electrical engineers, so any remedial action that can be undertaken immediately will be completed and appliances re-tested.

T Squared Compliance can provide a comprehensive service whatever your requirements, from office environments with only a small number of electrical appliances, to large scale multi-site industrial operations.

Risk Management

With a wealth of knowledge gleaned from T Squared's experience in bespoke project build and electrical installation, our engineers are ideally placed to advise on the safety of electrical distribution in your premises. T Squared Compliance offers a comprehensive Risk Management service aimed at minimising risk for the entire workplace.

Our team of fully qualified Risk Engineers will assess the safety of electrical distribution in your premises, advise any remedial action required, and implement a procedures programme to target key risk areas or the entire building as required. All proposed risk management procedures will be designed to meet the needs of the business, and with consideration to the client's long term requirements.

Thermal Imaging

As part of T-SQUARED Compliance's comprehensive testing services, our engineers regularly use Thermal Imaging to identify potential component failure. As part of a planned preventative maintenance programme, this method can enable corrective action to be taken before faults escalate to power outages or localised fire.

Thermal Imaging is a valuable tool in early detection of faults such as:

- Loose electrical connections
- Current load imbalances
- Corrosion or wear and tear within components

Our engineers use portable infrared imaging systems to identify localised build up of heat, establish the severity of the problem, and advise on the best course of action to avoid unscheduled and costly system downtime. As a non-contact form of inspection Thermal Imaging is a cost efficient method of electrical testing, enabling your business to remain fully operational whilst undertaking preventative maintenance analysis.



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Drawings

As part of T-SQUARED Compliance's range of services our engineers can supply schematic drawings to suit your exact requirements:

- As-Fitted – Our Design Engineers can update existing CAD drawings (or hard copies if electronic are unavailable), or create new drawings following on site measurement.
- Single Line Diagram – Created by Design Engineers and produced as laminated A4.
- AMTECH – Created by Design Engineers using AMTECH software.

Power Quality Surveys

Poor power quality can lead to electrical system failure, shorten equipment lifetimes, and contribute to high energy costs and carbon emissions. T-SQUARED Compliance can provide a comprehensive assessment to identify areas for improvement, opportunities for reducing operating costs and protecting against potential system failures.

Without disruption to site processes, T-SQUARED Compliance can supply Power Quality Surveys for both existing and new clients. Detailed investigation is undertaken into all areas of power quality, including

- Supply efficiency, and potential opportunities for cost reduction
- Imbalanced phase voltage
- Harmonic distortion

All recommendations made will be supported by clear technical and commercial benefits, giving the client assurance that any changes will result in increased operating efficiencies.

Fixed Wire Test and Inspection

It is vital that regular planned maintenance is undertaken on any electrical installations, to ensure workplace safety at all times. T-SQUARED Compliance can provide Fixed Wire Testing and Inspection to benchmark your electrical installation against the British Standard BS7671, and give guidance on ongoing maintenance and repairs.

Within the inspection our engineers will use both visual and electronic tests to to:

- Review all cables, accessories, switching equipment and disconnection devices
- Identify any potential risks or fire hazards due to defects or overloading of electrical circuits and equipment
- Identify any wear and tear, or other deterioration in equipment
- Review the installation in light of any changes to the use of the premises

As experts in this area, our engineers can not only complete testing and inspection to regulatory standards, but will also carry out repairs as necessary to ensure your systems are fully compliant and safe.



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Emergency Lighting Testing

All business premises are required by law to provide Emergency Lighting to illuminate escape routes and assist evacuation in the event of a power failure. Failure to comply will potentially endanger the safety of your employees, and as such can lead to legal prosecution. As a system designed to save lives it is critical that a programme of regular planned maintenance is adhered to, in order to ensure the system is fully operational at all times.

Our experienced engineers will inspect and test all system components, make repairs where necessary, and ensure your systems are fully compliant to the latest regulations.

Mains Power Analysis

T-SQUARED Compliance understands the importance of maintaining a safe and functioning electrical system, but also the importance of efficient electricity usage for commercial and environmental reasons. We offer a comprehensive Mains Analysis service to determine both the quality of your power supply as well as usage efficiency.

Our experienced team of engineers will use a variety of methods (including thermal imagery) to assess the condition of electrical installations including:

- Measurement of supply quality
- Highlighting voltage, current and power anomalies
- Measurement of Kva and Kvar values
- Measurement of power consumption
- Identification of harmonic distortion
- Assessment of capacity for new machinery installations

Following this analysis T-SQUARED Compliance will present an in-depth report of the electrical power quality, making recommendations for improvements that could help reduce energy costs and environmental impact. A thorough analysis is also a vital part of preventative maintenance, enabling risks or anomalies to be identified before they cause costly power failures.

Defect Repairs / Remedial Action

Where defects have been identified through inspection and electrical testing, T-SQUARED Compliance can offer advice on a recommended course of action and where applicable, complete the remedial works.

In line with industry standard BS 7671 our engineers will supply an electrical installation condition report, highlighting any areas requiring attention and applying codes in order of severity:

Code 1 – Danger present

Code 2 – Potentially dangerous

Code 3 – Improvement recommended

Our report will also provide recommendations on a programme of remedial works, after which the installation can be re-tested and issued with certifications showing that the system is fully compliant.



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Electrical Installation

With a wealth of knowledge gleaned from T-SQUARED's experience in bespoke project build, T-SQUARED Compliance are able to offer expertise in electrical installation to industrial and commercial clients.

Our experienced team of engineers are fully qualified to the highest industry standards, and multi-disciplined to provide maximum on site efficiency. T-SQUARED Compliance can provide a comprehensive and tailored service whatever your requirements, from office environments to large scale multi-site industrial operations, with care given to ensure all installations comply with industry regulations.



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Contact Details



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Contact Details

Head Office
Optimus Building,
2 Robroyston Oval,
Glasgow,
G33 1AP
T 0141 557 6800
F 0141 557 6801

Basingstoke Office
Unit 25,
Basepoint Enterprise Centre,
Stroudley Road,
Basingstoke,
RG24 8UP

Southampton Office
Unit 213,
Solent Business Centre,
Millbrook Road West,
Millbrook,
Southampton,
SO15 0HW

Swindon Office
Unit 46,
Basepoint Business Centre,
Rivermead Drive,
West Lea,
Swindon,
SN5 7EX



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