



Electrical Safety Systems

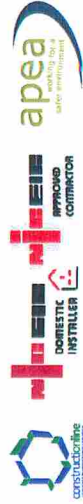


COMPANY PROFILE 2011

Electrical Safety Systems Limited

Main offices & workshops: Unit 1 & 2 Fulwood Road North,
Huthwaite, Nottinghamshire NG17 2NB ENGLAND

Registered office & workshop: 78 Herne Street
Sutton in Ashfield, Nottinghamshire, NG17 4GW ENGLAND
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Email:- service@electrical-safety-systems.co.uk Skype:- [electricalsafetysystems](https://www.skype.com/en/contacts/individual/electricalsafetysystems)





Electrical Safety Systems

Company Background

Electrical Safety Systems is a family owned company founded in February 1992 offering a range of electrical services to our clients.

We operate from our offices based near the M1 motorway at Huthwaite, Nottinghamshire where we have our own electrical panel wiring shop, general workshops and stores totalling over 23,000 sq.ft and our second site consisting of further clean workshop, warehouse and showroom is located nearby at Sutton in Ashfield of a further 3500 sq.ft

We operate throughout most fields of the electrical industry carrying out general installation and design work, safety testing of buildings, appliances, fire & emergency lighting systems, planned maintenance, CCTV & alarm systems, hazardous area services, shopfitting & energy efficiency & alternative energy installations all of which are carried out nationally and in some cases internationally.

We work in most environments and have substantial test instrumentation, a wide range of vehicles and plant and stock in our stores allowing us to respond to our customers quickly.

We operate 24 hours a day 365 days a year and always have engineers available on hand to carry out breakdowns with the additional benefit of our vans being fitted with satellite tracking systems allowing us to find and divert the nearest van to a job. In addition to our electrical services we also offer general shopfitting and building services all carried out in-house - calling on other specialist contractors only when required. Due to our varied background we are able to carry out most services ourselves from general building to data installations and due to our location and road links we can be anywhere from North Yorkshire to Liverpool, Manchester or Central Wales within a few hours at most.

Electrical Safety Systems are an Approved Contractor enrolled with the National Inspection Council for Electrical Installation Contracting Enrolment number 024428

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Design & Installation

We are able to offer a complete design service for all types of electrical installation whether domestic, commercial or industrial we have the necessary experience and skilled staff to do the job.

As a company we have invested in the Castline cable calculation software which allows us to carry out full design calculations for every circuit of an installation and to produce a documentation package for every installation giving full design data, schedules of circuit details and inspection and test results including full schematic diagrams, as fitted drawings and location maps as required by each customers individual requirements.

All installations are designed by staff qualified to the City & Guilds 2400 qualification and are checked throughout the installation process and upon completion by one of our NICEIC qualifying supervisors to ensure quality is maintained, and all staff have access to the latest range of 16th Edition test instruments and substantial plant and materials from our stores.

We also only use our own employees and never sub contract to other companies.

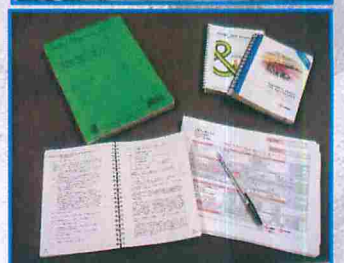
Examples of installations we have carried out include public house refits, house rewire, office refits, new build housing and industrial units, shop refits, switchgear installation, industrial machinery & plant installation and general installations throughout all environments from leisure facilities to chemical plants, MOD establishments, construction sites and schools. We also carry out large scale contracts such as the national decent homes programme for a number of construction companies in numerous regions around the country.

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Fixed Electrical Distribution Inspection & Testing

Electrical distribution systems require inspection & testing both upon installation and throughout their operating lifetime as recommended by the I.E.E. Wiring Regulations (BS7671).

Inspection & testing verifies that appropriate standards have been met, that the necessary level of protection is present and that the system is running within its design criteria.

Testing should follow the recommended procedures laid out in the wiring regulations and in official guidance notes for any special locations present.

A full visual inspection should be carried out to ensure correct selection & erection of components & compliance with British Standards, suitability for the environment, correct connection & identification, adequacy of mechanical protection, protection against direct & indirect contact and tracing & identification of all circuits within the installation.

Electrical tests are then carried out such as - Continuity of protective conductors & equipotential bonding, continuity of ring circuits, insulation resistance, Polarity, Operation of switching & isolation devices & RCDs, earth fault loop impedance & prospective fault current and Earth electrode resistance. Following testing a full documentation set is compiled giving full circuit details and test results along with details of fault found with photographs and recommendations for rectification. All documentation can be issued in printed format and emailed in PDF format for printing from any computer.

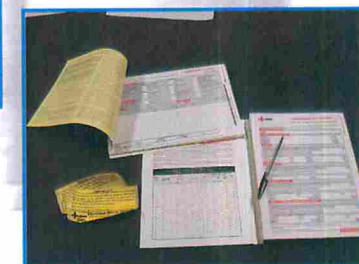
We can also provide schematic diagrams and location maps for equipment in a variety of formats.

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Portable Appliance Testing

portable electrical equipment is recommended to be periodically inspected & tested to ensure safe operation to the user.

Standard inspections consist of compiling an asset register for each site detailing appliance type, make model & serial number followed by relevant tests as follows:-

Full visual inspection for physical damage including the appliance casing & power cord and checks to ensure the appliance is suitable for the environment it is being used in and free from burning and excessive wear.

Tests are then carried out to include where relevant, earth continuity, insulation resistance, load & operation, earth leakage, microwave leakage and RCD operation.

Unique I.D. numbers are given to all items and following a satisfactory test pass stickers are fitted to the appliance. Any minor repairs are generally carried out free of charge within the test.

All test results are stored and compiled on computer and used to produce written reports. giving full test result details and written recommendations where necessary.

We generally recommend that equipment is tested at the following intervals:-

- 6 Monthly** - Workshops & harsh environments, equipment likely to suffer damage.
- 1 Yearly** - General office equipment with little chance of damage.
- 3 Yearly** - Computer / I.T. equipment.

We carry out this service nationally in all environments on single sites to multi site shop chains.

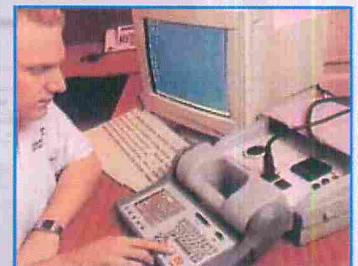
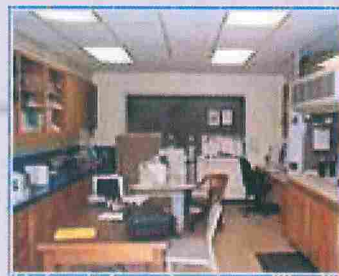
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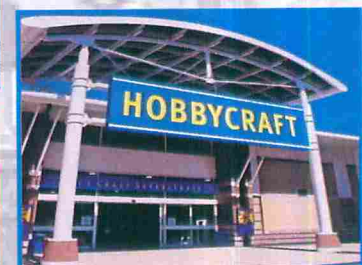
Shopfitting & Building services

Although our background as a company is predominantly electrical, for a number of years we have been carrying out a wide range of general contracting work and have a number of clients for whom we carry out a wider range of work including shopfitting contractors in Cambridge and Liverpool for whom we carry out all electrical work associated with callouts and store refits and more recently we have started carrying out complete shopfitting jobs on their behalf due to our geographic location and response times.

We have large workshop space at our offices set up with a substantial range of general contracting tools such as drill press, welders, bench saws, routers and have invested heavily in more general contracting tools such as battery nailguns, concrete mixers, diamond saws and generators which allows us to carry out general building work as well as electrical services giving our clients the benefit of passing jobs to us without having the hassle of coordinating trades and different contractors.

We have in-house more general skills available such as plastering, carpentry and plumbing & tiling allowing us to regularly carry out shopfitting projects, complete rewiring and plastering of all wall chases and decorating, all metal fabrication work on construction sites.

Some of the jobs we have been involved in include the complete building a house extension, refitting a gym in a leisure centre including relaying of the concrete floor following a flood, refurbishment of a large office building back into domestic housing and various kitchen refits and minor building works such as shower installations in domestic properties for local authorities.



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Social Housing Contracts & Private Housing Installations

For a number of years we have been involved in social housing contracts for local authorities involving inspection and testing, upgrades of domestic properties and full rewires.

During 2005 we expanded more into this work and got involved in the decent homes programmes for a number of ex local authority ALMO groups via construction companies such as Bullock Construction and Connaught Partnerships carrying out more extensive kitchen & bathroom upgrades to heating installations and rewires where we presently work in thousands of properties per year. We have also been called in as an independent testing company to inspect properties and advise on their condition prior to the upgrade being carried out by other contractors.

In addition to this we also work directly for builders and construction companies on one off new builds and refurbishments and also install lighting controls systems and design and install lighting and water feature plans for garden areas.

We also occasionally carry out full refurbishment of complete properties including roofing, bricklaying, plastering, plumbing, carpentry, tiling & decoration in addition to electrical upgrade work.

On new build, self build & refurbishment projects we can also include the installation of renewable energy installations, electrical underfloor heating, CCTV systems including internet remotely monitored DVR systems, both wired and wireless security alarm systems, door entry and access/automated gate controls, rainwater harvesting installations, CAT5 data installations and we have been involved in the control wiring of various wet underfloor heating systems, Air Source and Ground Source heating with plumbing companies.

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Machinery Guarding & Safety Interlocking

We can offer clients a complete design & installation service for safety interlocking systems for industrial process machinery to meet the requirements of the European Machinery Directive to include interlocking of safety gates, moving machinery and all related components of individual production machines to complete interlocking of machines to each other.

Utilising guided contact safety relays such as the Pilz range we can design suitable systems to protect virtually any machine and its operators and can install a range of devices such as pressure mats, light beams and barriers and audible & visual warning devices to suit most situations and can even tie systems into existing PLC control systems for external monitoring.

We can handle the modification of PLC programs where necessary and we have all the necessary plant and in-house trades to install barriers, gates and all sensors and actuators without the need to involve other companies.



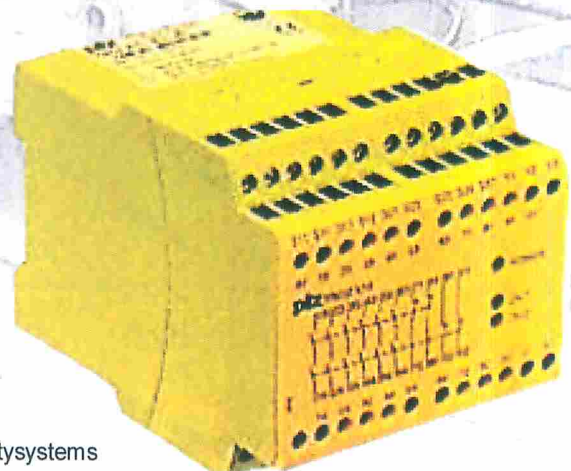
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Control panel design, assembly & installation

We are able to carry out full design and assembly of electrical control panels for virtually any application at our panel shop based at our offices in Mansfield where we are equipped with a substantial range of tools and test equipment.

We can work to existing clients plans and schematics or design systems from scratch based on the machine or process required and then carry out full installation on site using our own engineers carrying out any fabrication, welding and assembly in-house. We are also equipped with the latest in laser cutting and engraving machines allowing the accurate production of control panels and mimic panel along with engraving of control switches and displays directly into or onto the panel itself along with making bespoke signage for any requirement in a range of materials including plastics, wood and metals.

Some examples of machines we have built:-

Hardbanding machines - over the past few years we have built a number of harbanders for the oil industry which basically consist of plc controlled automatic welders which build up, gouge metal and balance drill pipe used on oil rigs. Each machine is self contained, containerised with on board generator and touch screen controls to allow deployment anywhere in the world. We have units operating in the U.K., Vietnam and Dubai at present.

For another client we built generator controls with under & overvoltage trips, voltage regulator and shutdowns to meet existing generators already in service on trains in Ireland.

For another client we carried out the electrical assembly and commissioning of a radio controlled caterpillar track mounted hydraulic measuring rig for use in the blast furnace of Corus Steels South Korea plant. The machine was equipped with advanced measuring equipment and assembled to withstand steam and 500°C temperatures with remote control to allow the operator to stay out of danger during operation.

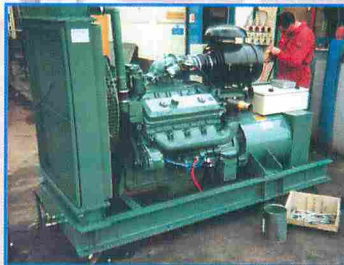
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Hazardous area & Oilfield Services

We have extensive experience of working in hazardous area locations to the requirements of BS5345, ATEX and DSEAR regulations, the requirements of the API code, or alternatively the Institute of Petroleum Electrical Safety Code and other statutory legislation.

We carry out a range of work in this field having a number of staff trained in COMPEX and associated training such as zoning along with the majority of the company having the Petroleum Retail Safety Passport. We regularly work at installations such as garage forecourts including annual licencing inspections to installation and maintenance of 'EX' equipment like spray booths in factories, to chemical plants and oil refinery locations and we also install static earthing and bonding systems for one client who manufacture the equipment.

We are also the only independent electrical service contractor carrying out work on land based drilling rigs in Great Britain working for the majority of drilling contractors. As a specialist in this area we carry out regular inspection, installation and rig moves on drilling rigs throughout Britain and occasionally further afield and have had staff permanently on site 24hrs a day 365 days a year at the B.P. oilfield in Dorset.

We look after a number of drilling rigs both mechanical and diesel-electric driven utilising SCR speed drive systems, A.C. Drive systems and onsite generators and synchronising systems ranging upto 3MW, 1000HP D.C. Motors and specialist oilfield equipment such as Topdrive systems, Elmagco brakes and gas detection systems, ROSS HILL, IPS, BENTEC & BAYLOR SCR systems.

We have previously carried out complete refits of drilling rigs including the conversion of the SCR and motor control system from an offshore rig from the Gulf of Mexico onto an onshore rig in the UK, and have built numerous hardbanding machines, cuttings reinjection plant, generator control panels and power distribution and plugboard buildings etc for a number of clients.

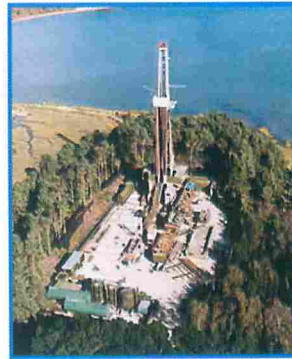
To date we have carried out work as far afield as El-Salvador & Pakistan, Europe and the Middle East

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Some of our Hazardous Area clients



HALLIBURTON



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Electrical Safety Systems

Mains Electrical Site Distribution Equipment

Portable Site Distribution Stands

Available with a wide range of options we manufacture reusable temporary site distribution stands, ideal for generator installations for running site cabins, plant & lighting.

We can manufacture one-off designs to suit your situation:-

- *Hard wired or plug in supplies to suit mains or generator connections*
- *MCCB or variable rating RCD main switchgear*
- *A variety of distribution options available with 125A, 250A or greater ratings*
- *Single, double pole & three phase MCBs, RCDs & RCBOs*
- *Built in 110V transformers can be incorporated*
- *Contactors, keyswitch, timer, photocell control of specific outlets can be incorporated along with sockets for plug in remote start/stop stations and emergency stops*
- *Can be assembled with a range of 110V, 230V, 400V IP44 or IP67 socket BS4343 outlets in 16A, 32A, 63 & 125A ratings or terminals for hardwired connection*
- *Galvanised steel frames assembled to include lifting points or forklift pockets where required*
- *A choice of IP rated steel, stainless steel or GRP enclosures available dependent on the application*
- *Outlets can be surface mounted or enclosed behind lockable doors*

Containerised Site Distribution & Equipment

For the larger installation such as construction sites and land based drilling rigs we can also manufacture completely containerised solutions containing a variety of switchgear, fuseboards, transformers, machinery and plugboard.

Available in virtually any size required with any combination of electrical switchgear possible including fuseboards, busbar chambers, starters, motor control centers and can be built around your own machinery if required, including hazardous area rated equipment.

Can be manufactured to include internal lighting, emergency lighting & external floodlighting and can include supply cabling and pre manufactured extension leads in SY or HO7 rubber cable to run site cabins and plant transportable within the lockable building.

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Electrical Safety Systems

Special projects

In addition to our standard range of services we can also carry out more specialist installations to clients plans and instructions.

For example we are presently engaged in a project with one of our customers to build and service water drilling equipment for the Ministry of Defence.

We were contacted and issued with basic electrical plans for the control system for a range of drilling rigs to be deployed in war zones to provide fresh water supplies to the British troops.

Along with our clients mechanics and design engineers we built and commissioned the electrical control system for the rig and tied it into the engine management, sensors and hydraulic system. This project required our staff to quickly learn the operating software system for the logic controller chosen by the MOD and assemble the components to the stringent MOD quality requirements.

With the start of the 2003 Iraq war the completion date for the work was brought forward and there are presently a number of units operating successfully in the harsh conditions of Afghanistan and Iraq.



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Electrical Safety Systems

Planned maintenance & additional services.

In addition to the standard range of services we offer we also have a substantial range of specialist test instrumentation to assist with breakdowns and planned maintenance of production machinery:-

Thermography - we can carry out thermal imaging surveys of plant and equipment to identify faults and overheating before damage occurs.

Ducter testing - we can carry out maintenance to electrical switchgear and low ohmeter tests of busbar systems to manufacturers specifications.

Current injection testing - we can carry out primary current injection on circuit breakers in-situ upto 1500 amps rating to establish the actual tripping characteristics of a protective device.

Mains power surveys & harmonic analysis - we can carry out mains quality surveys including maximum loading, harmonic content, earth leakage etc

Cable location tests - using the CAT tester we can carry out surveys of land and carparks etc to find buried service such as pipework and cables prior to digging potentially avoiding costly damage during construction work.

We can also carry out a number of condition monitoring tests on items such as motors to establish bearing faults etc. along with more general inspection such as fire alarm checks and emergency lighting inspections.

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Energy efficiency & Renewable Energy Systems

With changes in government policy and proposed financial implications of energy wastage, during 2009 we decided to expand into the energy efficiency field and took on additional workshops and offices to allow us to offer a number of energy efficiency/energy saving services.

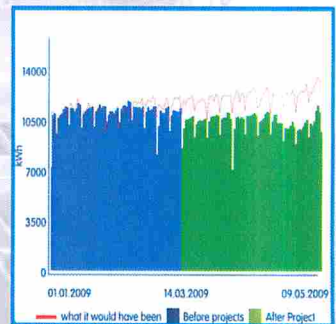
Lighting surveys - one of the simplest savings available to companies is replacement of lighting with more efficient models which offer equivalent or better illumination with lower running costs such as LED lamps, electroluminescent and T5 fluorescent lights, we can carry out lighting surveys and work out lighting schemes which can have payback in under 2 years where large amounts of lighting is used such as factories and supermarkets

Voltage optimisation - systems can be calculated and installed to match an installations loading that can reduce the voltage level down to 207 Volts where most equipment in the UK still runs as normal with no changed but can save around 30% of energy costs!

Lighting controls - control systems to switch off lights when not required, dim lighting and reduce the running voltage can be designed & installed offering substantial energy savings.

Alternative energy systems - Following the implementation of energy saving initiatives by planning departments such as 'The Merton Rule' new installations are increasingly having to include at least 10 % energy savings by alternative sources to get planning approval. To meet this we are now able to offer design and installation of systems such as Wind turbines, Solar Photovoltaic grid tied or off grid systems and Solar water heating and are involved in both Air and Ground source heating installations.

We have subsequently set up our own workshops where we are designing our own range of equipment and will be opening a showroom in late 2009/10.



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