

Training Prospectus



Electrical & Engineering

People who value professional service, quality training and targeted, cost effective, solutions choose us as a complete training provider

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PUTTING CLIENTS FIRST

Training Solutions & Consultancy 2000 Ltd was established in 1997 in order to provide quality, cost effective training services to business' and individuals throughout the United Kingdom to help them meet both developmental and legislative needs within an ever changing environment.

With the experience and expertise of **over 25 top trainers** and a knowledgeable business development team we provide honest, straightforward consultancy services at no cost to you.

Our strength is working with you, putting the knowledge, understanding and experience you already have in the day to day running of your own organisation to good use.

This enables us to identify together current and potential weaknesses in the way your business is operating and to build on its existing strengths. Getting to the root of problem areas and targeting them at cause, whilst raising awareness of *and* planning for potential future challenges, proves very effective in the sustainability of long term business growth and success.

We provide specialist training from Health and Safety and Business Management & Development to Information Technology and Electrical and Engineering. For the latest information on our services please feel welcome to visit our website:

www.tsc2000.co.uk

If you would prefer to talk to a member of our friendly & experienced customer service team to discuss your training needs or to arrange a FREE Training Needs Analysis please call:

01685 371500

- **Over the Past 10 years TSC2000 has continuously provided:**
- A genuine interest in aiding you to become more successful – your success is ours too!
- **A prompt response to requirements – we recognise that training needs can be urgent**
- Customised training, targeting *your* specific needs – we focus on strengthening weaknesses
- **Flexible training times to reduce disruption – we will work weekends and evenings too!**
- A free Training Analysis – we take the time to listen to your needs and ensure our courses meet them
- **On / off-site training – whenever, wherever you are**
- Short, intensive courses designed to be effective and efficient – we understand how precious time is
- **Dedicated team of experienced trainers – we offer the expertise of over 25 specialists**
- Added value and discount options – we value returning customers, block bookings, contracts, referrals
- **Nationwide coverage – UK and Ireland**
- The ISO 9001: 2000 guarantee of quality – for your peace of mind

Contents

Electrical & Engineering

Battery Maintenance

City & Guilds 2382 17th Edition Update Wiring Regs *New for 2008*

City & Guilds 2382 17th Edition Wiring Regs *New for 2008*

City & Guilds 2391 Inspection & Testing

City & Guilds 2377 Portable Appliance Testing

Closed Circuit Television (CCTV) Installation & Maintenance

Electrical Awareness & Emergency Lighting

Electricity at Work (Regulations 1989)

Part P – One Unit EMTA Award

Part P – Seventeen Units - EMTA Award

Programmable Logic Controllers

Industrial Hydraulics

Industrial Pneumatics

Production Hand Soldering

ELECTRICAL & ENGINEERING PROGRAMMES

Closed Circuit Television (CCTV) Installation & Maintenance

Aim: To enhance the skills of maintenance technicians to recognise and correct problems connected with the installation of closed circuit television equipment and to aid technicians in providing first aid service to closed circuit television equipment on site.

Content:

- Cables and signal transmission
- Closed Circuit Television Block Schematic
- The individual blocks in detail
- Setting up equipment for the best performance
- Installation Faults
- Safety when servicing units
- Pattern Generator, Setting Up and Use
- Equipment servicing and fault location

Duration: Two (2) Days

Course Code: TSCFAW

Electrical Awareness & Emergency Lighting

Aim: To enable participants to gain knowledge and understanding of relevant safety factors an overview of IEE Regulations and Electricity at Work.

Content:

- Relevant safety factors to include effects of electric shock
- Overview of Electricity at Work & IEE Regulations
- Safe isolation procedures including company procedures
- Use of testers to include fused test leads GN 38
- Plug tops & Fuse selection, Changing fluorescent tubes
- Testing typical circuits for power and lighting
- IEE Regulations as applicable to standby emergency lighting
- Installation of emergency lighting equipment
- Self contained luminaries
- Maintenance of secondary cell power supplies

Duration: Two (2) Days

Course Code: TSCEWEL

Electricity at Work (Regulations 1989)

Aim: To assist employers and employees to gain knowledge and understanding necessary to satisfy the requirements of the regulations.

Content:

- The Electricity at Work Regulations (1989)
- Electrical accidents and injuries, causes and effects
- Safe isolation of electrical installations and fittings
- Legal implications of the 1989 Regulations
- Interpretation of the Regulations
- Safe working practice

Duration: One Day

Course Code: TSCEAW

ELECTRICAL & ENGINEERING PROGRAMMES

Part P – One Unit – EMTA Award

Aim: To provide a solid foundation for delegates who need to be conversant with the new Part P Building regulations, some lead bodies will expect you to have this qualification in addition to City & Guilds 2381 & 2391 Inspect & Test.

Content:

- What are building Regulations and Approved Documents
- Approved Document P
- Other Applicable Building regulations and Approved Documents

Duration: Half Day

Course Code: TSCPARTP1

Part P – 17 Units – EMTA Award

Aim: To provide a solid foundation for delegates who need to be conversant with the new Part P Building regulations, some lead bodies will expect you to have this qualification in addition to City & Guilds 2381 & 2391 Inspect & Test.

Content:

- Applicable building regulations and approved documents
- Electrical safety legislation regulations
- Domestic electrical installation – pre work survey/inspection
- Domestic electrical installation – safe isolation procedures
- Identifying unsafe electrical situations
- Domestic electrical, earthing and bonding requirements
- Electrical test procedures
- Selecting domestic electrical cables and components
- Installing and replacing of electrical components
- Checking correct and safe operation of installed electrical components
- Recording of electrical test results and completing certificates
- Installing and/or rerouting domestic electrical cables
- Domestic electrical installation – special locations
- Understanding of new domestic electrical circuit requirements
- Installing domestic lighting circuits
- Maintaining domestic electrical installations
- Basic understanding of 3 phase supplies

Duration: Five (5) Days

Course Code: TSCPARTP17

ELECTRICAL & ENGINEERING PROGRAMMES

Industrial Hydraulics

Aim: To enhance the skills of craftsmen that will enable them to carry out safely basic hydraulic maintenance of a routine nature.

Content:

- Basic hydraulic theory
- Safety when working on hydraulics
- Hydraulic symbols
- Identification of components and their function
- Importance of cleanliness
- Basic hydraulic circuit
- Pipe fittings
- Pump (gear load)
- Power pack, filters and strainers
- Fault recognition, cavitations and contamination
- Pressure and flow measurement
- Single and double acting cylinders

Duration: Five (5) Days

Course Code: TSCBIH 5

Industrial Pneumatics

Aim: To familiarise maintenance technicians with the principles of pneumatic control, the function of valves and actuators and provide an introduction to associated basic logic.

Content:

- Theory of compressed air, related to maintenance requirements
- Safe working practices
- Practical component handling
- Compressors, dryers, coolers, receivers and pipes
- Servicing units (filters, regulators and lubricators)
- Diagrammatical symbols (CETOP, ISO and BS2917)
- Double acting cylinders – recognition
- Valves 2-2, 3-2, 4-2 & 5-2
- Speed control
- 'OR' Gates (Shuttle valve)
- 'AND' Gates (Two pressure valves)
- Basic sequence control & logic
- Using circuit diagrams

Duration: Five (5) Days

Course Code: TSCIP

ELECTRICAL & ENGINEERING PROGRAMMES

Production Hand Soldering

Aim: To enable persons with no previous soldering experience to achieve a level of knowledge and competence that will enable them to reach an experienced worker standard.

Content:

- Safety
- Treatment of Dry Burns
- Fumes
- Toxic Materials
- Theory of soft Soldering
- Choice of Soldering Equipment
- Choice of Soldering Tip
- Importance of Cleanliness
- Care of Equipment
- Preparing the Work
- Tinning Wires and Terminals
- Soldering Printed Circuit Boards
- Faults, Defects and Causes
- Practical Work

Duration: One – Two Days

Course Code: TSCLS
