

BURLEIGH
learning for life



Burleigh Community College
in Partnership with
East Midlands Technical Training Ltd

Technical Training Brochure

Electrical Courses



Burleigh Community College is a registered City & Guilds and N.I.C.E.I.C. Training Provider.

We offer a range of quality Training Courses to raise the standard of good electrical installation practice. All our courses carry City & Guilds or N.I.C.E.I.C. Certification.

All of our Lecturers are Engineers who have many years of relevant experience in the Electrical Contracting Industry.

We are centrally located in Loughborough, two miles from junction 23 off the M1

Please browse through our brochure and feel free to contact our Technical Training Manager, Barry Martin with any of your training requirements.

On-Site Courses available on request.

Barry J Martin

Technical Training Manager
Burleigh Community College
Loughborough
Leicestershire
LE11 5SQ

T: (01509) 844453 (Direct Line)

M: (07885) 959520

Email: barry@emtt.co.uk

www.emtt.co.uk

On-Site Courses

All of the courses listed in this brochure are available on company premises. Course prices will include a minimum number of candidates on each course.

- Tailored courses that best suit your company's requirements.
- Eliminate staff travel and accommodation.
- Reduce time away from the workplace.

All course fees quoted in this brochure include comprehensive course notes. Appropriate text books, examination fees, certification, refreshments and a buffet lunch are also provided.

Courses Available

- NICEIC Domestic Installer Scheme Qualification. (DISQ) PART P – 5 day course
- LEVEL 3 Requirements for Electrical Installations (BS7671:2008) incorporating Amendment No.1 2011 – C&G2382-12 – 4 day course.
- LEVEL 3 Initial Verification and Certificate of Electrical Installations. C&G2394-01 – 4 day course
- LEVEL 3 Periodic Inspection, Testing & Reporting of Electrical Installations. C&G2395-01 – 4 day course
- Testing of Domestic Electrical Installations 1 day practical hands on course
- Domestic Periodic Inspection Reporting 1 day course
- LEVEL 3 In-Service Inspection & Testing of Electrical Equipment (PAT) C&G2377-22 - 1 & 2 day courses depending upon experience
- Electricity at Work Regulations (1989) 1 day course
- Electrical Safety Awareness 1 day course
- Emergency Lighting & Fire Alarms 2 day Course.
- LEVEL 2 Building Regulations for Electrical Installations in dwellings C&G2393-01 – 1 day course
- Electrical Skills for Maintenance Personnel Stage 1 – Stage 2 – Stage 3 C&G2357-01 1 day course

Domestic Installer Scheme Qualification

4 Day Course



Course Objective:

In order for electrical installers to self-certify that their domestic electrical installation work in England and Wales is compliant with PART P of The Building Regulations, they must be registered with a competent person scheme, such as the NICEIC Domestic Installer Scheme. All applicants to the NICEIC Domestic Installer Scheme must meet a number of requirements, in particular be able to demonstrate they have the ability to install, inspect, test and certify their work in accordance with BS 7671, and to comply with the relevant Building Regulations.

The DISQ is a 5-day programme comprising of training and assessment, to meet all the needs of the competent person scheme. The emphasis of the qualification is on understanding regulations, standards and terminology, and having the ability to identify unsafe electrical situations and perform electrical test procedures. Knowledge and appreciation of the relevant requirements of other appropriate Building Regulations is also covered during the course.

Approach to the Course and Assessment:

If you are currently an experienced installer and you undertake a wide range of electrical installation work (for example, you do 'new builds' or rewires) you should attend the 4 day training course and then undergo the full scheme (Level A) assessment.

If you are currently an experienced installer and you undertake a limited amount of electrical work associated with non electrical trades (e.g. you install bathrooms or kitchens) you should attend the 4 day training course and then undergo the defined-scope scheme (Level B or C) assessment. Level B is for those who may add an extra circuit and Level C is for those who may alter an existing circuit.

Successful completion of the course and appropriate assessment will suitably prepare delegates to undergo site inspection under the NICEIC Domestic Installer Scheme.

Duration:

Five Working Days (includes one day assessment)

The first four days are dedicated to the theoretical and practical modules, with the fifth day allocated to the assessment.

Both the aspects of the DISQ are delivered in a modular format allowing it to be delivered over a number of days, evenings and/or weekends.

Course Content:

- Installation and replacement of electrical components
- Checking the correct and safe operation of installed electrical components
- Electrical Safety legislation, regulations standards and terminology
- Recording of electrical test results and completion of certification
- Pre work survey/inspection Installing and/or rerouting cables
- Safe isolation procedures Special Locations
- Identification of unsafe electrical situations New circuit requirements
- Earthing and bonding requirements Lighting installations
- Electrical test procedures Maintenance
- Cable and component selection Supplies
- Applicable Building Regulations

ENTRY REQUIREMENTS.....	None
DURATION.....	5 Days
COST PER PERSON.....	£965

Entry Requirements

This course is specifically designed for experienced installers, currently carrying out electrical work in dwellings, who have no formal electrical qualifications or training.

Summary

Domestic Installer Scheme Qualification (DISQ) is designed for contractors who currently undertake electrical work and need to attain a formal Part P qualification. If you are a full electrical contractor or undertake electrical work as part of an associated trade (eg Plumber, Kitchen Fitter etc) this course is the one for you. It covers the essential safety requirements of BS7671(17th Edition Wiring Regulations) inclusive of the important practical elements on inspection & testing and certification. It also covers Part P of the Building Regulations and much more...



Your guide to the 17th Edition Wiring Regulations

When are the wiring regulations (BS 7671) changing?

The IET regularly review the content of the wiring regulations (BS 7671). The latest version is the 1st amendment to the 17th edition, published in July 2011, to come into effect from 1 January 2012. The full title is BS 7671:2008 (2011), Requirements for Electrical Installations: IET Wiring Regulations.

What has changed in the new regulations?

The main areas which have been reviewed, added or updated are:

Section 710 Medical locations

Section 729 Operating or maintenance gangways

Section 444 Measures against electromagnetic influences

Section 534 Devices for protection against overvoltage (Surge Protection Devices)

Changes to the periodic inspection report

Expansion of assessment of general characteristics.

How will the wiring regulation changes affect the 2382 qualification?

A new programme of study, 2382-12, launch in September 2011.

This qualification will assess knowledge of BS 7671:2008(2011).

The existing 2382 qualifications (2382-10) and (2382-20) no longer exist

Which qualification should candidates sit for the remainder of 2012?

Candidates who wish to demonstrate knowledge of BS 7671:2008 should enter the 2382-12 qualification.

Is there an 'update' qualification for the 1st amendment?

No, there is no 'update' or 'short' version of this qualification. All candidates wishing to demonstrate knowledge of BS 7671:2008(2011) must sit the 2382-12 qualification.

The 2382-12 comprises of one unit, which will be assessed by an open-book online multiple-choice assessment. The test specification is published in the 2382-12 handbook available upon request and on the web site:- www.emtt.co.uk



LEVEL 3

REQUIREMENTS FOR ELECTRICAL INSTALLATIONS BS7671: 2008

INCORPORATING AMENDMENT NO.1 2011

**City&
Guilds**

2382-12

4 Day Course

Ideal for all those involved in electrical work of any kind. Delegates should have an understanding of electrical principles together with an appreciation of electrical installation work practice.

The course is designed to provide delegates with a thorough understanding of these regulations.

You will require an up to date copy of BS7671 provided with this course

Course Content

- Scope, objective and fundamental requirements for Safety.
- The definitions and terms used in the Regulations
- Protection for Safety
- Selection & Erection of Equipment
- Special Installations & Locations
- Inspection & Testing

Successful completion of the course and examination leads to the award of City & Guilds 2382-12 Level 3 Certificate in the Requirements for Electrical Installations.

ENTRY REQUIREMENTS

*Understanding of
Electrical Principles*

DURATION

4 Days includes examinations

COST PER PERSON.....

£615

LEVEL 3 INITIAL VERIFICATION AND CERTIFICATION OF ELECTRICAL INSTALLATIONS

**City&
Guilds**

2394-01

4 Day Course

Aimed at personnel who carry out or test and inspect their own electrical installation work.

Delegates should note on completion of the course they will be required to successfully complete an on-line multiple choice test, a written test and a practical assessment.

Course Content

- Understand the statutory & non statutory requirements for testing electrical installations.
- Understand the requirements for Periodic inspecting & testing
- Carry out appropriate electrical tests
- Correctly complete relevant documentation
- Understand the dangers associated with testing & the precautions necessary for the protection of personnel & equipment.

This course is open to anyone having a good working knowledge of BS7671 (17th Edition) and current practical experience of Inspection & Testing. It is aimed at practising electricians who have carried out initial verifications on electrical installations. It is NOT suitable for those coming into the industry with limited experience of inspection & testing.

ENTRY REQUIREMENTS

*BS7671 Requirements for
Electrical Installations*

DURATION

*4 Days includes examinations
& assessment*

COST PER PERSON.....

£750

**LEVEL 3
PERIODIC INSPECTION,
TESTING AND REPORTING OF
ELECTRICAL INSTALLATIONS**



2395-01

4 Day Course

This course is aimed at practising electricians who have not carried out inspection and testing since qualifying or who require some update of training before going onto other City & Guilds qualifications. The qualification is also suitable for those with limited experience of periodic inspection of electrical installations, such as those entering the industry from other engineering disciplines or who have been working in allied trades.

You are a qualified electrician and have a great deal of technical skills and knowledge. You work with minimum supervision and have a good record of safety, fault finding and ensuring work meets the required standard.

Delegates should note on completion of the course they will be required to take a on-line Multiple choice exam, practical assessment & 2½ hour written examination.

The qualification prepares candidates for the periodic inspection of electrical installation work.

This course is open to anyone having a good working knowledge of BS7671 (17th Edition) and current practical experience of Inspection & Testing. It is aimed at practising electricians who have carried out Periodic Inspections on electrical installations and require further training in PERIODIC INSPECTION, TESTING & REPORTING. It is NOT suitable for those coming into the industry with limited experience of inspection & testing. We recommend the C&G2392-10 Fundamental Inspection & Testing



TESTING OF DOMESTIC ELECTRICAL INSTALLATIONS

1 Day Course

This one day practical 'hands-on' course is an introduction to testing an electrical installation and is particularly suitable for those who lack practical experience or would like a refresher.

Candidates will be able to practice the following tests:-

- Continuity of Protective Conductors
- Ring Circuit Continuity
- Insulation Resistance & Polarity
- Earth Loop Impedance, Prospective Fault Current
- R.C.D. Testing

Candidates will also be shown how to complete the appropriate certification

ENTRY REQUIREMENTS

*BS7671 Requirements for
Electrical Installations*

DURATION

*4 Days includes examinations
& assessment*

COST PER PERSON.....

£750

ENTRY REQUIREMENTS

*Basic understanding
of BS7671*

DURATION

1 Day

COST PER PERSON.....

£245



**LEVEL 3
IN-SERVICE INSPECTION & TESTING OF
ELECTRICAL EQUIPMENT (PAT)**

City & Guilds

2395-01

**DOMESTIC PERIODIC
INSPECTION REPORTING**

3 Day Course

This course is ideal for Electrical Contractors wishing to improve or refresh their knowledge of PERIODIC INSPECTION REPORTING (PIR) for Domestic Electrical Installations.

This course provides the skills you need to carry out an inspection and test of existing domestic electrical installation. The course also shows delegates how to correctly compile and then summarise the NICEIC Domestic Periodic Inspection Report.

COURSE CONTENT

- Current legislation & Health & Safety Requirements
- Practical hands on Electrical Testing
- Guidance on completing electrical reports
- Observations & Recommendations for Electrical Installations
- The reporting code system. (1-2-3-4)
- Visual Inspections of Electrical Domestic Installations

1 & 2 Day Courses

Course Objective:

Provides delegates with an understanding of the legal requirements and the expertise to carry out Portable Appliance Testing. The City & Guilds assessment takes place on-line at the end of the course which is a one hour multiple choice question paper.

IEE Code of Practice for In-Service Inspection & Testing of Electrical Equipment is provided with the course and can be used for reference during the multiple choice City & Guilds Examination.

ENTRY REQUIREMENTS *1 day course*
delegates must have some prior electrical knowledge and an understanding of electrical terms

DURATION
1 or 2 days depending upon experience

COST PER PERSON *£250 / £345*

ENTRY REQUIREMENTS *City & Guilds 2382-10*

DURATION
3 Days

COST PER PERSON *£495*

Level 2 Building Regulations for Electrical Installations in Dwellings

City &
Guilts

2393-01

The Government Approved Document P (electrical safety) came into effect on the 1st January 2005. For the first time the mainstream work of domestic electrical installers became subject to the requirements and procedures associated with Building Control.

Domestic Electrical Installers need to appreciate the requirements that apply to building work they carry out in connection with their electrical work and they need to understand the way that Building Control works and the procedures that need to be followed. The primary aim of this qualification is to enable practising electricians, operating in the domestic environment, to gain an understanding of how electrical installations in dwellings must comply with all relevant Building Regulations.

This qualification DOES NOT deal with how to meet the technical electrical requirements when carrying out such work. This would be covered by the City & Guilds BS7671 (2382-10) Wiring Regulation courses. This course is suitable for those working in the building trades and others who require a working knowledge of how electrical installations in dwellings can affect the building construction. Please note that this qualification is only suitable for those practising their trade in England & Wales due to there being different regulations in Scotland and Northern Ireland.

To summarise, the aim of this qualification is to:

Meet the needs of candidates who work in the Building Services Engineering sector such as electricians, who need to be able to demonstrate knowledge of the building regulations for Electrical Installations in dwellings and associated areas in England & Wales.

Assessment will be by:

One multiple choice online (GOLA) test – This is an OPEN BOOK assessment and candidates will be allowed to take into the examination one or both of the following permitted reference material.

- Electrical Installers Guide to the Building Regulations
- IEE Guide to PART P of the Building Regulations.

Multiple Choice Assessment

40 minutes / 20 questions



ENTRY REQUIREMENTS 1 day course
including online assessment

DURATION There are no formal
entry requirements for
candidates undertaking
this qualification

COST PER PERSON.....
£250

Electricity At Work Regulations (1982)

1 Day Course

A 1 day course aimed at engineers and supervisory staff with responsibility for electrical systems.

You are now legally obliged to take precautions against death and personal injury from electricity at work. As the person responsible for maintenance you could be the Duty Holder whether a Foreman or Managing Director you could be held accountable under the Electricity at Work Regulations 1989

Course Content

- Legal Requirements
- Safe Design – protection against electric shock
- Dangers of Electricity
- Safe Systems
- Duty Holders



ELECTRICAL SAFETY AWARENESS

1 Day Course

A one day course aimed at Plant Operatives, Caretakers and un-skilled employees that have no previous awareness of Electricity in the Workplace and although not expected to carry out electrical work must have a basic awareness of electrical safety.

Course Content

- What is Electricity
- Employee responsibilities
- How Electricity is used and controlled
- Safe Isolation
- How Electrical Incidents Occur
- Prevention of Electrical Incidents

ENTRY REQUIREMENTS.....

None

DURATION.....

1 Day

COST PER PERSON.....

£250



FIRE ALARM & EMERGENCY LIGHTING

2 Day Course

This 2 day course will give delegates the understanding of the following:-

- BS5266
- Approved Document M
- Approved Document B
- The new regulatory reform order
- Fire Precautions Act
- Other relevant legislation/standards

You will gain information on Risk Assessments, Installations, maintenance, fault diagnostics, product availability and the relevant certificates.

ENTRY REQUIREMENTS.....

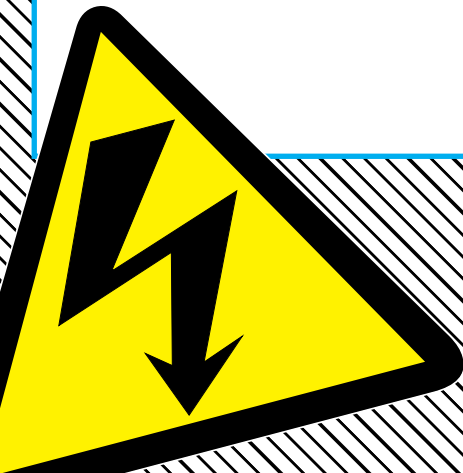
None

DURATION.....

2 Days

COST PER PERSON.....

£375



Stage 1: Basic Entry Requirements: None

This programme will raise the awareness of the hazard and dangers associated with electrical equipment and machinery. Successful completion will mean the delegate will be able to demonstrate safe methods of work accordingly.

Suitable for:

Fitters, Plant Engineers, Line Technicians etc..... people who will be required to Isolate, Test, and Refit electrical components such as 3 phase motors, solenoids, heater banks, contactors, switches, fans, circuit breakers, fuses.....and so on.

Content:

- Electrical Safety
- Basic Electrical Principles
- Single and Three-Phase supply systems
- Safe Isolation procedures
- Use of multimeter and insulation resistance tester
- Earthing and Bonding
- Review of different types of protective devices

Multiple Choice Assessment: 40 minutes / 20 questions



Stage 2: Intermediate Certification: Refer to Stage Three

This programme is designed for delegates who have completed the Stage One Basic course or who can demonstrate the knowledge and understanding, and can be assessed practically against that criteria. The training is of a high practical content and will allow the delegate to perform additional electrical skills safely and competently.

Content:

- AC Motor theory
- Electrical Principles
- Introduction to variable speed devices
- Connect and test Three-Phase motors, DOL and Star/Delta
- Overview of Electricity at Work and IEE Wiring Regulations
- Review of reduced current starting methods



Stage 3: Advanced Entry Requirements: Must have stage 1 certificate & completed stage 2

This programme is designed for delegates who have completed the Stage Two course.

Content:

- Testing and Fault Finding on Three-Phase motor circuits
- Review of different types of electrical sensors
- Build and fault find on simple relay circuits
- Cable selection exercise (IEE Wiring Regulations)
- Reading electrical drawings
- Comprehensive review of Stages One and Two
- Safe Isolation procedures



How to Find Burleigh College Training Centre

Thorpe • Hill Loughborough • Leicestershire • LE11 4SQ

- From M1 junction 23 – A512 Loughborough
- 1st set of Traffic Lights STRAIGHT ACROSS
- 2nd set of Traffic Lights STRAIGHT ACROSS (Quality Hotel on Left)
- Roundabout STRAIGHT ACROSS (Town Centre)
- 3rd set of Traffic Lights, TURN LEFT (Signposted Burleigh Community College)
- Mini-Roundabout STRAIGHT ACROSS
- Immediately after Pelican crossing TURN LEFT (GATE 1)
- Then immediately TURN RIGHT through a small car park into another small car park. (Parking is provided in this area)
- The Training Centre is almost in front of you. (Portakabin)

