

**CHARTERED**   
INSTITUTE OF PROFESSIONAL CERTIFICATIONS

# CERTIFIED UK WIRING REGULATIONS & ELECTRICAL SAFETY COMPLIANCE

**Fully Accredited  
By:**

Chartered Institute of  
Professional Certifications

CPD  
Certification Service

# PROGRAM OVERVIEW



Over 40% of electrical installations in the UK fail their first compliance inspection, a clear sign that the complexity of BS 7671—spanning over 500 pages and updated regularly—continues to overwhelm even seasoned professionals.

This certified program is designed to provide you with an in-depth, practical understanding of the **UK Wiring Regulations (BS 7671) and Electrical Safety Framework**, empowering you to interpret BS 7671 accurately, eliminate compliance gaps, and deliver installations that meet the UK's highest electrical safety standards every time. You will gain expertise in the **Electricity at Work Regulations 1989, the accompanying Memorandum of Guidance**, and their practical relationship with the Building Regulations and associated UK standards.

Throughout the program, you will acquire in depth expertise in **electrical system design, installation, and compliance**, building a strong foundation in the core electrical principles of voltage, current, resistance, and power. This program covers **earthing, bonding, shock protection, circuit design, and fault prevention**, alongside advanced safety topics such as fire protection under **BS 5839, arc fault detection, and residual current protection systems**.

## ACCREDITATIONS



4.8



4.6



# PROGRAM OVERVIEW



Participants will learn to carry out inspection, testing, and certification in line with **NICEIC and BS 7671**, using real-world examples and software-based design tools for accurate load assessment and energy efficiency optimization. The program also **explores installation practices across industrial, commercial, and hazardous environments, compliance with Building Regulations**, and evolving technologies including **AI-driven predictive maintenance and smart monitoring systems**, ensuring you are fully equipped to apply UK wiring and safety regulations in complex, modern electrical settings.

Upon successful completion of the program, you will attain the **Certification in UK Wiring Regulations and Electrical Safety Compliance**. This lifelong, industry-recognized certification will strengthen your professional credentials and demonstrate your expertise in effectively interpreting, implementing, and managing the UK's complex electrical safety and wiring regulatory framework.

## ACCREDITATIONS



4.8



4.6





# KEY SKILLS YOU WILL GAIN

## From This Program



**BS 7671 INTERPRETATION  
ELECTRICAL CIRCUIT DESIGN  
FAULT PROTECTION ANALYSIS  
EARTHING AND BONDING**

**INSPECTION AND TESTING  
EICR REPORT WRITING  
CERTIFICATE DOCUMENTATION ACCURACY  
PART P COMPLIANCE**

**ELECTRICITY AT WORK MASTERY  
RISK-BASED ASSESSMENT  
SPECIAL INSTALLATIONS COMPLIANCE  
EV CHARGER INSTALLATION**

**SOLAR PV INTEGRATION  
BATTERY STORAGE SAFETY  
SMART SYSTEM CONFIGURATION  
FIRE PROTECTION REQUIREMENTS  
SHOCK PROTECTION TECHNIQUES**

**CIRCUIT LOAD CALCULATION  
PROTECTIVE DEVICE SELECTION**



# YOUR FACULTY DIRECTOR



## Steven McGlinchey

### Highly Accomplished Chartered Electrical Engineer

Steven McGlinchey is a highly accomplished **Chartered Electrical Engineer** with nearly four decades of consulting engineering experience across the UK, Ireland, and New Zealand. **A Chartered Fellow of the Institution of Engineering and Technology (CEng FIET) and Chartered Member of Engineers Ireland (CEng MIEI)**, Steven currently serves as Senior Electrical Engineer and Partner at Lehding Services Design Ltd, specializing in complex M&E projects across prestigious commercial and public-sector developments.

His extensive expertise spans **UK Wiring Regulations (BS 7671), the Electricity at Work Regulations 1989**, and integrated safety and compliance frameworks guiding modern electrical engineering. Renowned for his proficiency in **building services design, energy efficiency, and fire safety systems (BS 5839)**, Steven has successfully led multidisciplinary teams delivering high-performance, regulation-compliant electrical designs for high-risk and specialized facilities. Throughout his career, he has received multiple accolades, including the **EECA Energy Efficiency Award of Excellence (2007)**, the **ACENZ Silver Award (2008)**, and **finalist positions in the 2025 Engineers Ireland Engineering Excellence Awards**. His distinguished, award-winning career reflects his commitment to advancing electrical safety, regulatory compliance, and technical innovation across the built environment.

# OUR PARTICIPANTS

Over 70% of FORTUNE 500 Companies Have Attended Our Accredited Programs Before

Goldman Sachs

SAMSUNG

ExxonMobil

BURBERRY

citi

IKEA

VOLVO

HYUNDAI

Pfizer

Life is our life's work

Nestle





# PROGRAM AGENDA

## MODULE 1 - LEGAL AND REGULATORY FRAMEWORK

- Electrical Safety in the Context of UK Legislation
- Key Laws: Electricity at Work Regulations 1989
- Memorandum of Guidance on Electricity at Work Regulations 1989
- Responsibilities of Employers and Electricians
- Penalties for Non-compliance and Case Studies

## MODULE 2 - OVERVIEW OF UK WIRING REGULATIONS (BS 7671)

- Historical Development and Key Amendments
- Legal Standing and Compliance Requirements
- Relationship with Other UK Standards and Building Regulations
- BS7671 On-site Guide 2018

## MODULE 3 - FUNDAMENTAL ELECTRICAL PRINCIPLES

- Core Principles Underpinning Electrical Design
- Voltage, Current, Resistance, and Power Basics

- AC and DC Systems: Characteristics and Applications
- Safety Considerations for Electrical Installation

## MODULE 4 - PROTECTION AGAINST ELECTRIC SHOCK

- Earthing and Bonding Practices
- Residual Current Devices (RCDs) and Circuit Breakers
- Arc Fault Detection Devices (AFDD)
- Insulation and Double Insulation Techniques

## MODULE 5 - DESIGNING ELECTRICAL INSTALLATIONS

- Load Assessment and Circuit Capacity Planning
- Selection of Cables, Conductors, and Components
- Voltage Drop and Energy Efficiency Considerations
- Examples to Software Available to Assist Calculations
- Real-world Examples of Calculations and Results

## MODULE 6 - INSPECTION AND TESTING PROCEDURES

- Visual Inspection: Key Areas to Evaluate





# PROGRAM AGENDA

- Testing Methods: Continuity, Polarity, and Earth Fault Loop Impedance
- Documentation: Test Certificates and Compliance Records
- NICEIC Guidelines and Certification
- Real-world Examples of Certifications and Issues with Non-compliance

## **MODULE 7 - ELECTRICAL SAFETY MANAGEMENT SYSTEMS**

- Risk Assessment Methodologies for Electrical Work
- Lockout-Tagout (LOTO) Procedures
- Emergency Response Planning for Electrical Hazards
- Real-world Examples of the Previous Section in Action

## **MODULE 8 - FIRE AND ELECTRICAL SAFETY**

- Overcurrent and Short Circuit Protection Measures
- Managing Heat Buildup in Components
- Understanding Fire Safety Regulations Relevant to Electrical Systems
- Real-world Examples of These Measures in Practice and Actual Failures

## **MODULE 9 - INSTALLATIONS AND ENVIRONMENTS - PART 1**

- Safety Considerations in Wet and Outdoor Environments
- BMS Installations in Commercial Properties
- Installations in Industrial Settings e.g SCADA
- Standards for Medical and Other High-risk Facilities
- Real-world Examples

## **MODULE 10 - INSTALLATIONS AND ENVIRONMENTS - PART 2**

- Data Centre Standards and 4-Tier Redundancy Systems
- Real-world Examples
- Lightning Protection Installations

## **MODULE 11 - UPDATES AND AMENDMENTS TO BS 7671**

- Key Changes in the Most Recent Edition of BS 7671
- Practical Implications for Electricians and Designers
- Strategies for Continuous Professional Development
- Impact of Artificial Intelligence (AI)

# YOUR CHARTER DESIGNATION



Chartered Institute of Professional Certification's programs are unique as they provide you with professional charter designation and mark that can be used across your lifetime once you have completed our programs.

Upon successfully attending this program, you will be awarded with the **Certification in UK Wiring Regulations and Electrical Safety Compliance** that can be used in your resume, CV and other professional credentials. This certification is industry-recognized with lifelong validity.

Globally demanded and recognized, this certification will amplify your professional qualifications and showcases your ability to navigate the complexities of UK wiring regulations and electrical safety standards, ensuring compliance and minimizing risk, setting you apart as highly valued and sought-after professional in electrical safety and compliance management. Developed by **Chartered Institute of Professional Certifications**, the content of this program has been independently accredited by **CPD Certification Service** as adhering to the highest standards of continuing professional principles.



# ABOUT US

49,525

Business Leaders Have  
Attained Their Chartered  
Certifications Since 2009

390

Certified and Fully  
Accredited Programs

87%

Chartered Leaders Have  
Reported Career Promotions  
and Enhancements

## Chartered Institute of Professional Certifications

All of Chartered Institute of Professional Certifications program are fully accredited programs. The professional charter and designations are trademarked credentials that can only be used by professionals who have completed and passed our accredited program. It is also independently accredited by CPD as adhering to the highest standards of continuing professional principles.

**CHARTERED**  
INSTITUTE OF PROFESSIONAL CERTIFICATIONS



# OUR FACULTY DIRECTORS

We Collaborate With  
Instructors From  
Renowned Institutions



**HARVARD**  
UNIVERSITY



**Wharton**  
UNIVERSITY of PENNSYLVANIA



**Stanford University**



**UNIVERSITY OF MICHIGAN**



THE LONDON SCHOOL  
OF ECONOMICS AND  
POLITICAL SCIENCE



**Columbia  
Business  
School**

**London  
Business  
School**



# CONTACT US TODAY

We Thank You for Your Ongoing Support  
of Our Programs

## **Singapore and Asia Pacific Enquiries**

Email: [advisor@charteredcertifications.com](mailto:advisor@charteredcertifications.com)  
Phone: +65 6716 9980  
Address: Chartered Institute of Professional Certifications  
1 Gateway Drive  
#20-04 Westgate Tower  
Singapore 608531

## **Australia and New Zealand Enquiries**

Email: [advisor@charteredcertifications.com](mailto:advisor@charteredcertifications.com)  
Phone: +61 3 9909 7310  
Address: Chartered Institute of Professional Certifications  
530 Little Collins Street, Level 1  
Melbourne VIC 3000, Australia

## **UK, Europe and Middle East Enquiries**

Email: [advisor@charteredcertifications.com](mailto:advisor@charteredcertifications.com)  
Phone: +44 (020) 335 57898  
Address: Chartered Institute of Professional Certifications  
86-90 Paul Street  
London, EC2A 4NE

## **USA Enquiries**

Email: [advisor@charteredcertifications.com](mailto:advisor@charteredcertifications.com)  
Phone: +1 888 745 8875  
Address: Chartered Institute of Professional Certifications  
99 Wall Street #3936  
New York, NY 10005