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CERTIFIED AUSTRALIA ELECTRICAL WIRING REGULATIONS AND SAFETY COMPLIANCE MANAGER™

CAEW™

Fully Accredited By:

Chartered Institute of Professional Certifications

CPD Certification Service

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CERTIFIED AUSTRALIA ELECTRICAL WIRING REGULATIONS AND SAFETY COMPLIANCE MANAGER™



PROGRAM OVERVIEW

Australia's electrical wiring standards rank among the world's most complex, shaped by **overlapping federal, state, and territorial rules**. Compounding the challenge, **frequent updates to the AS/NZS 3000 Wiring Rules and varying regional interpretations** make it increasingly difficult for electrical leaders to maintain full compliance while operating efficiently across Australia, and every lapse carries real financial, legal, and safety consequences.

This certified program will equip you with a comprehensive command of Australia's electrical wiring standards and safety compliance requirements at both national and state levels. You will explore essential topics including the **Australian/New Zealand Wiring Rules (AS/NZS 3000:2018), the Electrical Equipment Safety System (EESS), mandatory safety device requirements** such as residual current devices (RCDs), and certification and testing obligations for electrical products and installations. The program also highlights **critical differences in regulatory enforcement between states and territories**, examining key compliance frameworks in New South Wales, Queensland, and Victoria.

Throughout the program, you will gain the knowledge and skills to **design, install, test, and certify electrical systems in full compliance with the latest regulations**. You will learn to **interpret updates to the Wiring Rules, integrate renewable energy and smart technologies within compliant frameworks**, and apply best practices in risk mitigation and hazard identification. You will also master the development of comprehensive **compliance documentation**, including Certificates of Electrical Compliance, and learn to confidently **manage inspections, audits, and enforcement actions** by regulatory authorities.

ACCREDITATIONS

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PROGRAM OVERVIEW

The program also delivers practical insights into emerging challenges such as compliance for **solar PV systems, battery storage systems, and electric vehicle charging installations**, ensuring your operations stay aligned with the latest regulatory and technical standards. Armed with a solid foundation in Australia's electrical wiring regulations and safety compliance requirements, you will be fully equipped to **lead electrical teams, oversee complex projects, and implement robust, legally sound electrical compliance strategies** that minimize risk and uphold public safety.

Upon completing the program and passing the Chartered exam, you will earn the **Certified Australia Electrical Wiring Regulations and Safety Compliance Manager (CAEW™)** designation. This credential validates your expertise in navigating the complexities of Australia's electrical regulations and delivering safe, efficient, and compliant electrical solutions. Globally recognized and holding **lifelong validity**, it elevates your professional credibility and positions you as a trusted authority in leading compliance strategies across residential, commercial, and industrial projects.

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KEY SKILLS YOU WILL GAIN

From This Program



AS/NZS 3000 INTERPRETATION
AUSTRALIAN ELECTRICAL REGULATORY FRAMEWORK
ELECTRICAL REQUIREMENT APPLICABILITY

ELECTRICAL SAFETY RISK ASSESSMENT
ELECTRIC SHOCK PROTECTION
FAULT-CURRENT PATH ASSESSMENT
MEN EARTHING SYSTEMS

EQUIPOTENTIAL BONDING
OVERCURRENT AND FAULT PROTECTION
ISOLATION AND EMERGENCY SWITCHING
PROTECTIVE DEVICE SELECTION

CABLE SIZING AND DERATING
VOLTAGE DROP ASSESSMENT
SHORT-CIRCUIT WITHSTAND ASSESSMENT
PROTECTION COORDINATION
SWITCHBOARD COMPLIANCE

DISTRIBUTION EQUIPMENT ASSESSMENT
ENVIRONMENTAL SUITABILITY ASSESSMENT

YOUR FACULTY DIRECTOR



Steve King

Accomplished Electrical Safety and Compliance Expert

Steve King is an accomplished electrical engineering and compliance specialist with deep expertise in power systems analysis, power system protection, arc flash, and electrical safety. As an **EL-001-25 Standards Subcommittee Member, he contributes directly to the development and interpretation of Australian electrical standards**. He is also a contributor to **AS/NZS 4836 – Safe working on or near low-voltage electrical installations and equipment**, bringing first-hand insight into safe work practices and electrical risk management.

As an experienced High Voltage Auditor, Steve brings proven practical capability in **assessing electrical installations, identifying non-conformances, and evaluating protection and safety requirements**. His technical background enables him to connect wiring rules, compliance obligations, and real-world engineering risks with practical application. Steve is also highly regarded for distilling complex engineering principles into clear guidance, helping participants translate technical standards into confident compliance decisions and safer electrical practices.

OUR PARTICIPANTS

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























PROGRAM AGENDA

MODULE 1 – UNDERSTANDING THE AUSTRALIAN ELECTRICAL REGULATORY FRAMEWORK

- Relationship between legislation, regulations, Australian Standards and industry guidance
- Roles of electrical safety regulators, network service providers, designers, contractors and asset owners
- How regulatory requirements differ between jurisdictions

MODULE 2 – NAVIGATING AS/NZS 3000 AND THE WIDER STANDARDS FRAMEWORK

- Structure, scope and application of AS/NZS 3000
- Normative requirements, notes, appendices and referenced standards
- Interaction with standards including AS/NZS 3008, AS/NZS 3017, AS/NZS 61439 and the AS/NZS 60079 series

MODULE 3 – FUNDAMENTAL ELECTRICAL SAFETY PRINCIPLES

- Protection against electric shock and the role of basic and fault protection
- Fault-current paths and automatic disconnection of supply
- Understanding electrical risk rather than simply satisfying individual clauses

MODULE 4 – EARTHING AND EQUIPOTENTIAL BONDING

- Earthing systems, MEN arrangements and fault-current return paths
- Protective earthing, equipotential bonding and touch-voltage considerations
- Practical earthing design and the law of diminishing returns
- Case Study

MODULE 5 – PROTECTION, ISOLATION AND SWITCHING

- Overcurrent, short-circuit and earth-fault protection
- Isolation, switching and emergency switching requirements
- Selection and application of protective devices

MODULE 6 – CABLE SELECTION AND INSTALLATION

- Current-carrying capacity, derating, voltage drop and short-circuit withstand
- Cable installation methods and environmental influences
- Coordination between conductors and protective devices



PROGRAM AGENDA

MODULE 7 – PROTECTION COORDINATION IN REAL NETWORKS

- Selectivity, sensitivity and fault-clearing time
- Coordination across multiple levels of distribution
- Balancing personnel safety, equipment protection and continuity of supply
- Case Study

MODULE 8 – SWITCHBOARDS AND DISTRIBUTION EQUIPMENT

- Key compliance considerations for switchboards and distribution assemblies
- AS/NZS 3000 and AS/NZS 61439 interfaces
- Access, segregation, fault containment, environmental conditions and installation considerations

MODULE 9 – WHEN THINGS GO WRONG: ELECTRICAL FAULT CASE STUDIES

- Switchboard faults associated with contamination and environmental conditions
- High-current bus duct failures and their contributing factors
- Lessons for design, installation, inspection, maintenance and fault containment

MODULE 10 – SPECIAL INSTALLATIONS AND HAZARDOUS AREAS

- Recognizing when additional standards apply beyond AS/NZS 3000
- Fundamentals of hazardous-area classification and sources of release
- Equipment selection, ventilation and the AS/NZS 60079 series
- Case Study

MODULE 11 – INSPECTION, TESTING AND VERIFICATION

- Inspection and testing requirements for electrical installations
- Verification methods and documentation of results
- Identifying the difference between design compliance and installed compliance

MODULE 12 – ELECTRICAL COMPLIANCE AUDITING

- Developing a structured electrical compliance audit methodology
- Identifying, categorizing and prioritizing non-conformances
- Distinguishing documentation deficiencies from physical safety issues
- Case Study



PROGRAM AGENDA

MODULE 13 – EXISTING INSTALLATIONS, MODIFICATIONS AND UPGRADES

- Existing installations versus current standards
- Determining the compliance implications of alterations and additions
- Defining upgrade boundaries and documenting engineering decisions
- Case Study

MODULE 14 – DESIGN-TO-SITE REALITY: WHEN COMPLIANT DESIGNS INTERACT

- Understanding electrical systems as interconnected systems rather than individual assets
- Unintended consequences introduced through network modifications
- Importance of modelling, commissioning, monitoring and feedback into design
- Case Study

MODULE 15 – BRINGING IT TOGETHER: PRACTICAL COMPLIANCE WORKSHOP

- Interactive review of a realistic electrical installation scenario
- Identifying applicable requirements, risks and potential non-conformances
- Developing and defending a practical compliance position

EXAMINATION

YOUR CHARTER DESIGNATION



CHARTERED

By the vested power in the Board of Governors of Chartered Institute of Professional Certifications, the Advisory Board, Faculty and Curriculum Committee, do hereby certify

Juliana Silva

Has Been Conferred the Designation of

Certified Australia Electrical Wiring Regulations and Safety Compliance Manager ™

CAEW ™

Has satisfied all the examination and experience requirements, and is duly admitted and licensed to use this charter, board certificate, and membership credentials

And has committed to abide by the membership declaration of ethics, rules of professional conduct and continuing education requirements as a member of Chartered Institute of Professional Certifications

Chair of the Board

CAEW CERTIFIED AUSTRALIA ELECTRICAL WIRING REGULATIONS AND SAFETY COMPLIANCE MANAGER™

Director

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

Upon successfully attending this program, you will be awarded the **Certified Australia Electrical Wiring Regulations and Safety Compliance Manager (CAEW™)** designation, a credential you can showcase on your resume, CV, and other professional profiles. This certification is industry-recognized and carries lifelong validity.

Globally sought-after and recognized, the **CAEW™** designation will amplify your expertise in ensuring safe and compliant electrical design, installation, and maintenance in line with Australia's latest wiring and safety standards. It also validates your capability to develop and implement comprehensive electrical compliance frameworks aligned with Australian Standards, the National Construction Code (NCC), and industry best practices. This program is developed by the **Chartered Institute of Professional Certifications**, and its content has been certified by the **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 programs are fully accredited programs. The professional charters 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.



OUR FACULTY DIRECTORS

We Collaborate With Instructors From Renowned Institutions

HARVARD UNIVERSITY

Wharton University of Pennsylvania

Stanford University

UNIVERSITY OF MICHIGAN

LSE 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

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