PRACTICAL ELECTRICAL WIRING STANDARDS: NATIONAL RULES FOR ELECTRICAL INSTALLATIONS - ET 101:2008 (INCLUDING AMENDMENTS 1 AND 2)

YOU WILL LEARN:

- The essentials of the ET 101 Standard
- How to find your way around ET 101
- Harmonisation issues with European standards
- Principles and practice of shock protection
- Calculation of circuit impedances
- Discrimination between devices
- Cable sizing
- Earthing and bonding
- Inspection and testing requirements
- Certification requirements

WHO SHOULD ATTEND:

- Building services engineers
- Electrical apprentices
- Electrical design staff
- Electrical engineers
- Electrical trades persons
- Engineering managers
- Graduate electrical engineer trainees
- Maintenance and shutdown planning staff
- Maintenance managers
- Private electrical contractors
The Program

INTRODUCTION TO IRISH NATIONAL RULES
- Structure of international and Irish national rules
- Foundation electrical principles - terminology and definitions
- Scope of national rules
- Growth of electrical distribution systems and polyphase circuits
- Types of earthing systems
- Requirements for safety and planning of electrical installations
- Definitions

EARTHING ARRANGEMENTS
- Need for earthing in electrical systems
- Supply system earthing
- Protective earthing of consumer installations
- TN-C-S systems
- Earth faults
- Earth electrodes
- Equipotential bonding

PLANNING OF ELECTRICAL INSTALLATIONS
- Purpose, supplies and structure
- External influences
- Compatibility and maintainability
- Safety services
- Continuity of service
- Voltage band

ELECTRICAL HAZARDS AND PROTECTION
- Electrical hazards
- Codes for degree of protection by enclosures
- Principles of basic and fault shock protection
- Calculation of disconnection times
- Thermal effects
- Protection against voltage disturbances
- Isolation and switching

SELECTION AND ERECTION OF EQUIPMENT
- Common rules and wiring systems
- Isolation, switching, control and monitoring
- Earthing arrangement and protective conductors
- Luminaries and lighting installations
- Safety services

INSPECTION AND TESTING
- Initial verification
- Testing
- Periodic inspection and reporting
- Certification and reporting

SPECIAL INSTALLATIONS OR LOCATIONS
- Locations of increased shock risk such as bath or shower, swimming pools, hot air saunas
- Construction installations, agricultural and horticultural premises
- Installations in restrictive conductive locations
- Caravans and marinas
- Medical locations
- Exhibitions
- Solar photovoltaic power supply systems
- Outdoor lighting, mobile units, temporary installations such as fairgrounds and amusement parks
- Floor and ceiling systems
- Maintenance gangways

MAINTENANCE CONSIDERATIONS

SAMPLE DESIGN CALCULATIONS

SUMMARY, OPEN FORUM AND CLOSING

“Enlightening - dealing with daily problems which we find unexplainable.”
Richard Collinette

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