

# Two-Day Capsule Course on NEC

## NATIONAL ELECTRICAL CODE OF INDIA 2023

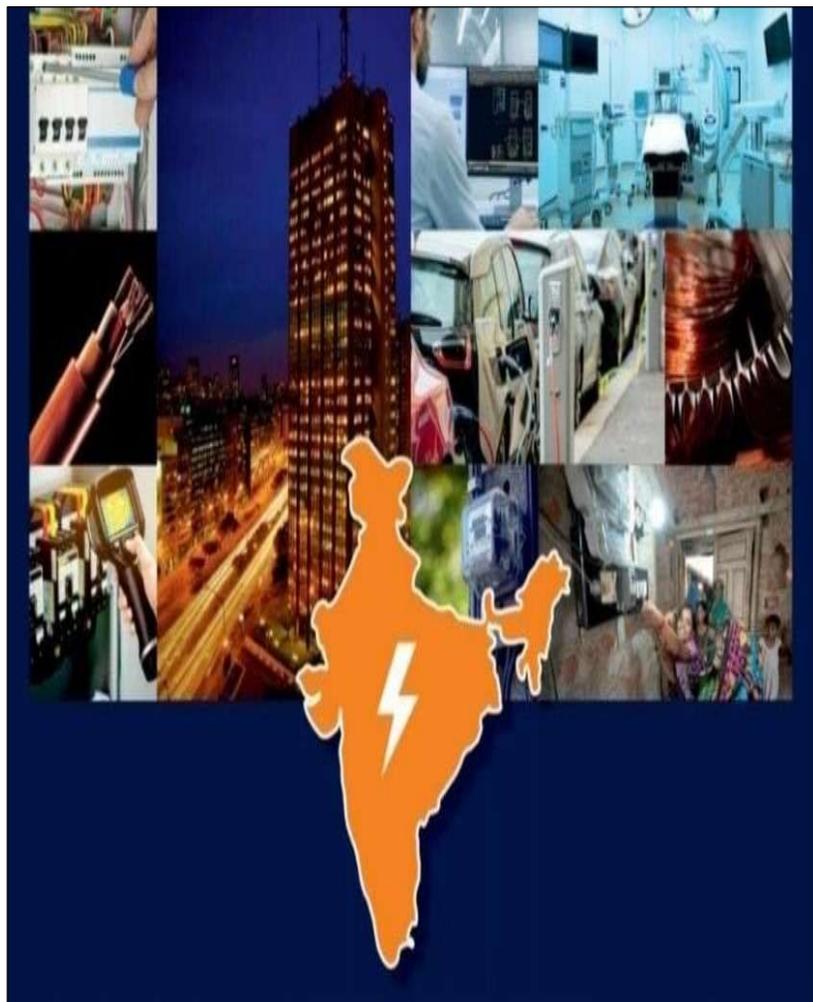
09:30 AM – 05:30 PM

29-30 January 2026

Organized by: - BUREAU OF INDIAN STANDARDS



Venue: - National Institute of Training for Standardization  
A 20 & 21, Institutional Area, Sector 62, NOIDA – 201309



### SPEAKERS



## About NITS

The **National Institute of Training for Standardization (NITS)** was set up under the aegis of BIS in 1995 to meet the growing needs and expectations for quality training in the fields of standardization, quality assurance, management systems, certification, laboratory testing, etc. NITS plays a significant role in national development efforts through Capacity Building of various stakeholders.



Keeping in view its expanding activities, a separate training complex was created at Noida, having state of the art training facilities including computer laboratory, well equipped training halls of different capacities with modern audio-visual facilities, auditorium, library and wi-fi enabled campus. It also has a hostel with all required facilities.

## National Electrical Code of India

The **National Electrical Code of India (NEC)** is an all-inclusive Electrical Installations Code prepared by BIS, providing guidelines for regulating electrical installation practices across the country.

The code contains:

- Good practices for the selection of electrical equipment forming part of an electrical installation;
- Recommendations concerning safety in the wiring of electrical installations, General safety procedures and practices in electrical work; and
- Additional precautions must be taken when using electrical equipment in hazardous environments such as an explosive or active atmosphere.

As the preminent electrical code in the country, it establishes the basics of electrical safety.

Considering the importance of the Code in ensuring quality and safety of the electrical installations, BIS, through its training arm, the National Institute of Training for Standardization (NITS) has taken the initiative to conduct the short- term two days course on National Electrical Code of India for national capacity building.

## Learning Objectives

- To spread awareness of the National Electrical Code of India and to ensure proper interpretation of the standards,
- Bridging the competence gap in the skills of personnel currently involved & working with the public works departments and other construction agencies dealing with design and erection of Electrical Installations.
- Making participants skilled enough to be achieving quality as per prescribed standards



## Course Module

- Overview of Standards on Electrical Safety Importance of National Electrical Code of India
- Overview of Electricity Act, CEA regulations and correlating role of Standards and Code
- Understanding stages of electrical work, stakeholders, and their respective role. Designing layouts, drawings, load assessment, designing distribution, SLDs.
- Protection for Safety - electric shock, thermal effect (fire due to short circuit), over current & short circuit, over voltages, EMI, Lightning protection and Surge protection
- Selection and erection of equipment - Wiring system, conductor, cross-section, insulation, Isolation, switching, control.
- System earthing - Earthing arrangement Safety in each network, Equipment earthing, Earthing of DG, UPS, electronic equipment
- Protective Equipotential Bonding and Protective conductors
- Verification and testing - Inspection during construction and after completion Statutory provisions – Act, Rules, Regulations, role of CEA, Electrical Inspectors Standby Generation stations, Transformer sub-stations, Electrical Installations in Special Locations

## Who should attend?

- Electrical Engineers of all key sectors such as: State Chief Electrical Inspectorate
- Central & State Public Works Dept and Railways, State Electricity Board, Municipal Authorities, Fire Dept, RERA
- Distribution Companies, Industry Stakeholders
- Consultants, Contractors, Developers, Builders and Architects



## Criteria for selection & Batch size

- Batch size - 40
- Selection on First come First serve basis



## Certification

- Certificate of participation on completion of the course.

## Course Fees, Duration & Venue

- **Fees:-** Rs. 1,500/- + 18% GST
- **Duration:-** 2-days
- **Venue:-** National Institute of Training for Standardization A 20 & 21, Institutional Area, Sector 62, NOIDA – 201309

## How to Apply?

- VISIT the E-BIS Website: [www.manakonline.in](http://www.manakonline.in) CLICK on the "Training" Head.
- LOGIN by clicking on the blue "LOGIN" button on the top right corner
- SIGNUP by clicking on "SIGNUP" on the Member Login Page if you are not a member otherwise "SIGN IN" using your credentials
- FILL OUT all the fields and click on "REGISTER" and complete the registration process.
- CHOOSE the course you want to apply for, fill in the required information and "PAY" the requisite fee.

## For any further queries, you may contact:

**Shri Yajur Digvijay Singh Brar** (Course Coordinator)

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Email: [nits@bis.gov.in](mailto:nits@bis.gov.in)