BUREAU OF INDIAN STANDARDS

CAPSULE COURSE

ON

NATIONAL ELECTRICAL CODE

19-20 Feb 2024

NATIONAL INSTITUTE OF TRAINING FOR STANDARDIZATION

A 20 & 21, Institutional Area,
Sector 62, NOIDA - 201309
Phone: +91 120 4670227/232 ,
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web: www.bis.gov.in

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 preeminent 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, Railways, 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.

Fees, Course Duration & Venue

-
Rs. 1,500/- for 2-days Non-Residential Course.

The course will be run by NITS, Noida at

A 20 & 21, Institutional Area,
Sector 62, NOIDA-201309

Dates: Capsule Courses on NEC

19-20 February 2024

Hostel Facilities

Hostel Facilities at NITS will be available subject to prior & timely reservations.
Room Fees (single)*- Rs 2000/- per day
Room Fees (sharing)*- Rs 1500/- per day

How to Apply?

- VISIT the E-BIS Website: 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. Nishant Parasar, Course Coordinator
Email: nits@bis.gov.in , Mobile - 9599977846

राष्ट्रीय मानकीकरण प्रशिक्षण संस्थान, नौएडा
NATIONAL INSTITUTE OF TRAINING FOR STANDARDIZATION, NOIDA
भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Nomination Form

Name of the Programme	
Date of the Programme	Venue:
Sponsoring Organization (**OR** In Individual Capacity) with complete Address	
Telephone **/**Mobile Number	
Organization/Firm GST No.	
Email ID	

Participants Details

Sl. No	Name (IN CAPITAL LETTERS)	Designation	Contact No.	Email
1.				
2.				
3.				
4.				
5.				

Will you stay in Hostel ?		If Yes, Please mention the date and time					
Yes	No	Arrival	Date	Time	Departure	Date	Time

Details of Payment (in Rupees)

Training Fees *	Hostel Charges *	GST ##	Discount, if any	Total amount

Mode of Payment

Name of Bank	UTR No. & Date of transaction # (for NEFT/Net banking/ IMPS/UPI payment)	Amount (in Rs.)

* For Training/hostel fees, see NITS Training Calendar at BIS website www.bis.gov.in. **(Stay in hostel is charged on Night stay basis).**

For payments by **NEFT**, Payment should be made to **Bureau of Indian Standards, Savings A/c No. 712210100000650, Bank of India, Sec-62 Noida, Branch Code 7122, IFSC Code BKID0007122.**

NITS GST No. 09AAATB0431G2Z8 , SAC Code: 999294 Applicable GST@ 18% on Training fee and Hostel fee.

Date: _____   Signature and Seal_____

The nomination form should preferably be scanned and e-mailed to nits@bis.gov.in , hnits@bis.gov.in. and reach NITS at least one week before the progaramme date. For sending hard copy may be addressed to:

Head , National Institute of Training for Standardization (NITS), Bureau of Indian Standards,

A – 20 & 21, Institutional Area, Sector – 62, NOIDA - 201309, U.P.

Phones: 0120 – 4670227 , 4670232, Email: nits@bis.gov.in , hnits@bis.gov.in, Website: http://www.bis.gov.in

Important :
1. Participants are requested to get the confirmation from NITS, whether, nomination has been accepted or not **before attending the programme.**
2. Rules for Refund of Training & Hostel Fees :
a) A refund of full fees shall be made when cancellation/withdrawal of nomination is made **at least 15 days** in advance of the date of the training.
b) Cancellation/withdrawal of nomination is made **less than 15 days** in advance of the date of the training programme or is not informed, a **cancellation charge of 25%** of the training fees would be levied. The balance amount after deducting the cancellation charges would be returned.
c) Hostel fees if any, paid in advance shall be returned in full.