



**National Productivity Council**

## **Training Programme on**

**“Industrial Practitioner’s Course on Energy Efficiency”  
For Energy Auditing Professionals**

**PROGRAMME CODE: (NPC/TP/23-24/24)**

**03<sup>rd</sup> - 07<sup>th</sup> JULY 2023  
(AIP-NPC-Chennai)**



## **1. ABOUT NPC**

National Productivity Council (NPC), an autonomous organization established in the year 1958, under the Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry, Government of India, is a pioneering institution providing consultancy, training and audit services in various disciplines to promote productivity culture in the country.

Dr. Ambedkar Institute of Productivity (AIP), a training wing of NPC is engaged in training Consultants for in-house needs and Executives from Industry, Government, PSU's and Private Organizations on a sponsored or self- financing basis. Further AIP, NPC, Chennai is the Nodal Agency for organizing and conducting the National Certification Examination for Energy Managers and Energy Auditors on behalf of the Bureau of Energy Efficiency, whereby about 20,000 Certified Energy Auditors/Managers serve the Indian economy today.

NPC has set up the Centre of Excellence for Training in Energy Efficiency Training (CETEE) at AIP, Chennai. The CETEE facility is the culmination of Indo-Japanese Governmental cooperation and has been implemented with the help of Bureau of Energy Efficiency (BEE), Government of India, and New Energy Development Organization (NEDO) and Sumikin Management Company, an associate of Sumitomo Steels, Japan.

CETEE is equipped with various industrial energy utility equipment designed to demonstrate practically, various aspects of energy efficiency practices and conservation techniques as applicable in industries. CETEE has been providing world class training to public sector companies (ONGC, IOCL, GAIL, PCRA, BHEL, Power Grid etc.), corporate companies in private sector as well as international organizations (UNEP, APO, UNIDO, GIZ, ITEC) since its inception.

## **2. PROGRAMME THEME**

The training has been designed considering the need to strengthen energy auditing expertise among the energy professionals to meet the growing demand of the industries. The approach for energy auditing for various utility systems will be clearly explained, by experienced faculty, starting from the first principles to include things like what data to collect, what to look for during field audit, how to analyse data, and how to report the findings.

## **3. LEARNING OBJECTIVES**

The main objective of this training programme is:

- To train the participants about the energy efficiency opportunities that are existing in conventional industrial equipment.

- To provide the participants with practical knowledge and skills needed to address common concerns involving the industrial utilities.
- To impart the participants with the key-take aways from what they have learned in the training and their ability to implement it back at their workplace.

#### 4. BROAD PROGRAMME COVERAGE

The following topics shall be covered during the training:

- Energy Auditing Methodology
- Electrical Systems & Harmonics
- Electric Motors
- Pumps & Pumping Systems
- Fans & Blowers
- Compressed Air Systems
- Industrial Air Conditioning & Refrigeration Systems
- Buildings, Lighting System & Renewable Energy Technologies
- Boiler Systems
- Steam Systems
- Industrial Furnaces
- Waste Heat Recovery
- Cogeneration System
- Industrial Drying
- Energy Management System ISO 50001:2018
- Energy Monitoring & Targeting & Data Analytics

#### 5. METHODOLOGY

Lectures with practical demonstrations in selective key equipment, case studies and exercises/discussions.

#### 6. PARTICIPANTS' PROFILE

All those who are working in Energy field from Central / State Government Departments, Academic Institutions, Public / Private Sectors, those who are aspiring to learn on Energy Management & Conservation, Engineers, Managers etc.

#### 7. FACULTY

Senior NPC Officers, Experienced Consultants and Industrial Experts with Energy Auditor Certification in the field.

#### 8. PROGRAMME FEE & VENUE

<b>Programme Code</b>	<b><i>NPC/TP/23-24/24</i></b>
<b>Program Venue</b>	Centre of Excellence for Training in Energy Efficiency, National Productivity Council, Dr. Ambedkar Institute of Productivity, Chennai.

<b>Programme Fee</b>	<b>Residential Participants:</b> Professional training fee: ₹ 20,000 /- + 18% GST (Apart from the training fee, Single A/C hostel accommodation @ Rs. 1500 /- + Applicable GST per day or night along with food is available at our NPC-Chennai campus based on the availability and on first come first serve basis)	<b>Non-Residential Participants</b> ₹ 20,000 /- + 18% GST
<b>For Residential Facility</b>	24 hours (Check-in / Check-out)	

## 9. PAYMENT DETAILS

Programme fee inclusive of GST to be paid in advance and proof of payment to be attached along with application form.
<ul style="list-style-type: none"> <li>• <b>ECS Payment Details:</b> Indian Overseas Bank, 70, Golf Link, New Delhi Branch; A/c No. 026501000009207, IFSC Code. IOBA0000265</li> <li>• DD/Cheque should be drawn in the name of NATIONAL PRODUCTIVITY COUNCIL payable at NEW DELHI</li> <li>• NPC'S PAN No: AAATN0402F, NPC'S GSTIN: 07AAATN0402F1Z8</li> </ul>

*As per GOI notification No. 9/2017-Integrated Tax (Rate) dated 28.06.17, Sr. No. 75, Heading 9992 (at page no. 19 of the notification) No GST is applicable where Services provided to the Central Government, State Government, UT Administration under any training programme for which total expenditure is borne by the Central Government, State Government, UT Administration.*

- **NPC shall offer 10% discount on programme fee to organizations sponsoring 3-5 participants and 15% discount of programme fee to organizations sponsoring more than 5 participants.**

## 10. HOW TO APPLY

- Please apply in prescribed application format enclosed with this brochure. Nominations may be sent to the following address:

**The Training Coordinator**  
**National Productivity Council**  
**5-6 Institutional Area**  
**Lodhi Road**  
**New Delhi – 110003**  
**Email Id: npctraining@npcindia.gov.in**  
**Tel: 011-24607319**

- **Last date for Receiving of Nominations / Applications: 23.06.2023**

## 11. GENERAL INSTRUCTIONS

- ❖ Due to limited number of seats, it is recommended to send the nominations as per attached format at the earliest, for ensuring the availability. Acceptance of the nominations is subject to the seat availability and receipt of programme fee latest by the last date for nominations.
- ❖ The Residential programme fee covers the professional fees towards training, board & lodge of the Participant(s). The fee once deposited is non-refundable, however, substitutions are allowed.
- ❖ Each participant should carry their ID cards and necessary letters / orders issued by their department for attending the training program.
- ❖ The Non-Residential programme fee covers the professional fee towards training, lunch and refreshments during the training program. The fee once deposited is non-refundable, however, substitutions are allowed.
- ❖ NPC shall not bear any charges towards participants' to & fro travel from their residence / place of stay and the training program venue. All participants shall make their own arrangement to reach the venue on time as per the programme schedule.
- ❖ Participants are requested to assure their health and safety during the training period and NPC will not be liable for medical expenses incurred by the participants during the program.
- ❖ NPC will not provide boarding and lodging before and after the dates of programme. Participants planning to stay longer than the scheduled duration should arrange the same at their own cost.
- ❖ Settlement of additional bills: The hotel will be instructed to open separate folio for each participant. Participants may directly settle their additional dues regarding family member, laundry, telephone, mini bar, room service, overstay etc. with the hotel before checkout.
- ❖ The participants shall be awarded Certificate of Participation on successful completion of programme.
- ❖ Any other terms and conditions apply as may be notified by NPC at any point of time.
- ❖ Referring to GST guidelines, you are requested to confirm the applicability of GST payment for your department.
- ❖ Participants are required to follow the necessary COVID protocols during training.



**NATIONAL PRODUCTIVITY COUNCIL**  
**5-6 Institutional Area, Lodhi Road, New Delhi – 110003**  
**[npctraining@npcindia.gov.in](mailto:npctraining@npcindia.gov.in)**

**APPLICATION FORM FOR NOMINATIONS**

Title of Programme: Hands-on Training on Energy Efficiency in Electrical Utilities

Programme Code: NPC/TP/23-24/24

Date: 03 – 07 July 2023

Programme Duration: 5 days

Location: NPC, Chennai.

**Details of Participants:**

S.No.	Name of Delegate	Designation	Mobile No.	Email ID	Official Address for correspondence
1					
2					
3					
4					
5					

**Details of Nominating Authority:**

Name:

Designation:

Organization:

Address

Contact Number:

Email ID:

Signature

Details of Proof of payment of Programme fee (*RTGS / NEFT Details; Cheque, DD*):

**Payment Particulars**

- **ECS Payment Details:** Indian Overseas Bank, 70, Golf Link, New Delhi Branch; A/c No. 026501000009207, IFSC Code. IOBA0000265
- In case of ECS Payment, the payment details should be intimated accordingly along with UTR number
- DD/Cheque should be drawn in the name of NATIONAL PRODUCTIVITY COUNCIL payable at NEW DELHI
- Programme Fees per Participant plus GST to be paid in advance
- PAN No: AAATN0402F, GSTIN: 07AAATN0402F1Z8

IMAGE RELATED TO PROGRAMME THEME

## Hands-on Training on Energy Efficiency in Electrical Utilities



### **National Productivity Council**

(Under Department for Promotion of Industry and Internal Trade)

Ministry of Commerce and Industry

Government of India

5-6, Institutional Area, Lodhi Road

New Delhi – 110003

Tel: +91-11-24607319

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