

NATIONAL PRODUCTIVITY COUNCIL

PROSPECTUS

Industry Oriented One Year Post Graduate
Certificate Programme

in

ENERGY MANAGEMENT (2019 – 2020)



NATIONAL PRODUCTIVITY COUNCIL

National Productivity Council,
Dr. Ambedkar Institute of Productivity,
(Under Ministry of Commerce & Industry, Govt. of India)
6, Aavin Diary Road, Ambattur Industrial Estate (North),
Ambattur, Chennai – 600 050

Visit us at: <http://www.npcindia.gov.in>

Mobile: +91 9940455132

E-mail: pgcem@em-ea.in

About National Productivity Council (NPC)

The National Productivity Council, established in 1958 is an autonomous organization registered as a society. It is tripartite in its constitution and representatives of Government, employers and workers and various professional bodies participate in its working. Besides its headquarters at New Delhi, NPC operates through twelve Regional Directorates and Training Institute. Its activities are further extended by nation-wide network of 28 Local Productivity Councils.

The objective of NPC is to stimulate productivity consciousness in the country and to provide productivity services with a view to maximizing the utilization of available resources of men, machines, materials and power, to wage war against waste, and to help secure for the people of the country a better and higher standard of living. To this end, NPC collects and disseminates information about the concept and techniques of productivity and management through various publications including periodicals and audio-visual media of films, radio and exhibitions. It organizes and conducts seminars and training programmes for various levels of management in the subjects of productivity and management.

With a view to demonstrating the validity and value application of productivity and management techniques, NPC offers consultancy service (Productivity Survey and Implementation Service) for which the demand has been steadily rising. The service is intended to help industry; departments of Government and service organizations adopt techniques of better management and operational efficiency consistent with the economic and social aspirations of the Nation.

NPC has established various other specialized services, such as Fuel Efficiency Services, Plant Engineering and Production Engineering Services, Productivity Services for public sector undertakings, public utilities, public administration, post-harvest operations in agriculture and small industries; Applied Productivity Research for evolving trends and indices of productivity in the core sector of economy; National Scheme of Supervisory Development under which an examination is held and National Certificate in Supervision is awarded to the successful candidates and Productivity Programmes for Trade Union Leaders and Workers. NPC also conducts institutional training programmes for the development of consultants in Productivity and Management in the areas of Industrial Engineering, Energy Management, Plant Engineering, Behavioural Sciences, Finance Management, Marketing Management and Agricultural Productivity.

NPC's professional staff consists of about 127 highly qualified and experienced specialists representing various disciplines relevant to management and productivity. NPC possesses a well-equipped Library-cum-Documentation Centre.

1. **BACKGROUND**

Energy intensity of Indian industries is by and large, high as compared to its counterparts in the developed as well as some developing countries. Following liberalization and globalization of economy, Indian industries can no longer ignore the urge of increasing energy productivity at their units.

Our fossil energy sources are not going to continue for a long time. Some renewable energy sources, particularly, biomass and wind energy have now become commercially viable. A growing need is felt to increase their use for conserving fossil energy sources and increasing their life span. There is also a growing use of energy in agriculture, farm, commercial building, etc. because of modernization and comforts.

One of the major obstacles for energy efficient programme has been the lack of awareness, training and expertise in the organization of energy audit and conservation programme. There is an urgent need to strengthen efforts for training engineers in energy management and conservation.

Government of India has enacted The Energy Conservation Act, 2001. The Act is enacted to provide efficient use of energy and its conservation. The act provides policy framework and direction to national energy conservation activities. Under this Act, Energy Audit is made mandatory to key notified Designated Consumers (DC). There is a provision in this Act that only an Accredited Energy Auditors shall carry out the Mandatory Energy Audit of the Designated Consumers at specified intervals. The programme is designed in such a manner, to meet the requirements of Energy Conservation Act, 2001.

Aware of the benefits of increasing energy productivity, NPC has launched its consultancy and training services in Energy Management in 1964 and has on its role 28 consultant-cum-trainer in Energy Management discipline. Recognizing the need of trained engineers in energy management, Government of India has assigned NPC, from time to time, to provide training at postgraduate level and develop professionals under the aegis of Science & Technology Plan, Oil Industries Development Board, Petroleum Conservation Research Association, Ministry of Industrial Development, etc. NPC has already trained more than 105 engineers through conduct of several such programmes.

To cater to the growing needs of industry faced by challenges of liberalization and globalization of economy, a substantial increase in energy audit conservation and management activities are recommended. Therefore, the strength of energy specialists who are exposed to multifarious activities interfaced with energy management, industrial, agricultural, farm and commercial building situations need to be augmented.

2. OBJECTIVE

The programme is practice-oriented and aims at to fulfill the following:

1. To fully equip and develop the trainees for taking up challenging assignments as energy managers in industries, central/state energy development agency, Energy consulting firms, Energy Management centers, etc.
2. To evolve suitable strategy for efficient energy management.
3. To develop the ability to carry out energy audits and work out suitable action plans for effecting energy savings and their implementation.
4. To take up macro level energy surveys, prepare data base and work out models and programme for wide application, awareness etc.

3. Eligibility

Candidates should possess a Bachelor's Degree in any branch of Engineering/Technology. Candidates appearing in the final degree examination can also apply, but must produce cumulative mark sheets of the entire course during the time of Interview. They must have excellent analytical and creative bent of mind and aptitude for applied work.

There is no age restriction.

4. AWARD OF CERTIFICATE

Candidates who qualify in the prescribed examinations, project and other evaluations will be awarded a Postgraduate Certificate in Energy Management. This PG certificate is widely recognized by the Industry.

5. SELECTION

After screening the applications received, the selected candidates will be called to appear for an interview (at their own cost) at one of the centers which would be intimated. The date of the interview will also be intimated to the candidates. The final selection would be based on the marks scored in the U.G. degree exam and performance of the candidate in the interview.

6. VENUE OF THE TRAINING PROGRAMME

Dr. Ambedkar Institute of Productivity (AIP), National Productivity Council, 6, Aavin Diary Road, Ambattur Industrial Estate (North), Ambattur, Chennai-600 050.

7. CURRICULUM

The selected candidates will undergo intensive, comprehensive and industry oriented programme at the institute (AIP) for a year. The curriculum prescribed for the course is the outcome of blending experience of training and consultancy work that NPC has accumulated for over forty years. The broad coverage of subjects is given separately. Kindly refer to Syllabus and details about CETEE (Lab) facility for details regarding the syllabus and the lab facilities available.

8. FACILITY

CETEE (Centre of Excellence for Training in Energy Efficiency) is the culmination of Indo-Japanese Governmental Co-operation and has been implemented with the assistance of Bureau of Energy Efficiency (BEE), Ministry of Power, Govt. of India, New Energy Development Organization (NEDO), Govt. of Japan.

The Centre of Excellence for Training in Energy Efficiency (CETEE) is a unique, world-class, hands-on training centre of the NPC conceived with the objective of bridging the gap between energy efficiency theory and practice.

CETEE imparts through this ‘state of the art’, world-class, hands-on training in Energy Efficiency Technology and Techniques. CETEE is based on “learning by doing” pedagogy where trainees are exposed to “real-industry” projects.

In this facility, practical industrial-scale models of energy equipment are available so that participants can conduct trials and understand the concepts and energy saving practices.

9. FACULTY

The Institute draws the chief/senior consultants of NPC who possess wide practical experience from its various offices. Experienced guest speakers from industry, business organisations, institutions and professional bodies would also be invited to share their experience.

10. METHOD OF TRAINING

The programme would be conducted through class-room lectures, hands on practical sessions in the CETEE facility, case studies, group discussions, business games, role plays, group learning methods, etc. The training would be imparted through presentations and lectures using audio visual aids like LCD projectors, white board, flipcharts, etc.

11. PERFORMANCE MONITORING

The performance of each candidate in the programme will be monitored through quiz, exercises, examinations, project work, and practical sessions and viva voce. In case of poor performance, indiscipline, misbehaviour in the institute, lack of interest, poor conduct, etc. the training may be terminated. In case of excessive absence beyond the allowed limits, the training may be extended.

12. DATE OF COMMENCEMENT OF THE COURSE

The course commences on **08/11/2019**.

13. APPLICATION

The application form is available on website www.npcindia.gov.in. The candidates should take a print out of the same, fill it and send it along with copies of proofs of educational qualifications, mark sheets of the qualifying (B.E/ B.Tech) exam, date of birth and caste certificate (if applicable). **The last date for receipt of the filled in application form is 04th October 2019.**

14. COURSE FEE

The fee for the entire programme is **Rs. 2,50,000 (Rupees Two Lakhs and Fifty Thousand Only)**. The candidate has to pay an amount of Rs. 25000 (Rupees Twenty Five Thousand Only), at the time of admission, which is Non-refundable. The balance amount of Rs. 2,25,000 (Rupees Two Lakhs and Twenty Five Thousand Only) is to be paid in two installments of Rs. 1,12,500 (Rupees One Lakh and Twelve Thousand Five Hundred Only) each. Boarding and lodging has to be arranged by the candidate at his/her own cost.

15. MODE OF PAYMENT

Demand Draft payable in favour of "National Productivity Council", payable at New Delhi.