

Job oriented Training Program

26 weeks

'POST DIPLOMA COURSE'

In

'TRANSMISSION & DISTRIBUTION SYSTEMS'

BATCH-1, 2018

PROSPECTUS



NATIONAL POWER TRAINING INSTITUTE

(Ministry of Power, Govt. of India)

(An ISO 9001:2008 & ISO 14001:2004 Organization)

Power Systems Training Institute

Subramanyapura Road, Near Yarab Nagar Bus Stop,

Banashankari II Stage, Bangalore- 560 070

(KARNATAKA) INDIA

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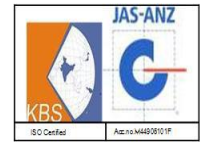
TEL: 080-26934369

Website : www.nptibangalore.in

www.npti.gov.in/npti_psti_bangalore



NATIONAL POWER TRAINING INSTITUTE
Power Systems Training Institute
(An ISO 9001:2015 & ISO 14001:2015 Organisation)
Ministry of Power, Govt. of India
BANGALORE-560 070



Announces Job oriented Training program for Diploma Holders

**26 WEEKS
POST DIPLOMA COURSE IN
TRANSMISSION & DISTRIBUTION SYSTEMS**

ABOUT THE COURSES

This is a job oriented **Diploma Engineer Program** for those who desire to make a career in the power sector. On successfully undergoing this course the Diploma Engineers will find immense opportunities of employment in Indian Power Sector.

The course content complies with the syllabus for Engineers and Supervisors for Operation & Maintenance of

- Transmission & Distribution Systems.

The instruction and training methodology comprises 60% theory and 40% practical Sessions. The main objective of the course is to create a technically and professionally trained manpower available for the Power Industry.

PLACEMENT

Many of our trainees are employed with reputed Organizations like Sterlite Grid, Bajaj Electricals, Wind World India Ltd., Arcadis, Toshiba, JVS Electronics, National Contracting Company-UAE, Atkins Global, KEC, Kalpataru Power Transmission Co., Adani Power, Kalkitech, Suzlon, Genus Power & Infrastructure Company, Manav Energy Pvt Ltd, Oblum Electric, Vijay Electricals, Teems India Tower lines Pvt. Ltd., Open Systems International, Schweitzer Engineering Lab Pvt. Ltd.,

IMPORTANT DATES

Issue of Prospectus	12.10.2018
Last Date for receipt of application forms in all respect	5PM, 15.10.18
Display of merit list in website	22.10.18
Counseling & Admission	24.10.18
Commencement of the Course	24.10.2018

IMPORTANT POINTS

ELIGIBILITY:

1. 26Weeks PDC in Transmission & Distribution Systems: Diploma in Electrical / Electrical & Electronics

✓ **AGE LIMIT:** No age limit.

✓ **SELECTION CRITERIA FOR ADMISSION:** Percentage of marks obtained in Diploma Course or equivalent examination as per University norms.

✓ **NO. OF SEATS:** 60 (Sixty only) in each course. 25% seats are reserved for sponsored category. Reservation for SC, ST, OBC & PH will be as per Govt. norms in the non-sponsored category.

✓ **FEES:**

1. Rs. 80,000 + 18% GST for PDC in T&D Systems and Rs. 27,000/-Hostel charges for residential candidates

Education Loans are provided by Nationalised Banks to eligible candidates (Terms and conditions apply) Course Fee can be paid in Two instalments.

SPONSORED CANDIDATES: The candidates sponsored by the companies, if fulfilling eligibility requirement, will be admitted directly as per the terms and conditions.

HOW TO APPLY

Download the Application form from our website and send it as directed in the application along with a crossed **DD of Rs. 200/- in favor of "PSTI, Bangalore"**

ADDRESS FOR CORRESPONDENCE

Head of The Institute

**National Power Training Institute
(Power Systems Training Institute)**

Subramanyapura Road, Banashankari-IIInd Stage, Near Yarab Nagar Bus stop,
Bangalore-560 070

TeliFax:080-26713758; Tel.080-26934369, 26934352

email: pstinpti@yahoo.com, pstinpti.training@gmail.com

Website : www.nptibangalore.in www.facebook.com/psti.npti

ABOUT NPTI, BANGALORE

Power Systems Training Institute (PSTI), Bangalore is conducting high quality training courses in various facets of T & D since 1972. It is an established name in the Indian power sector. PSTI is located in its own 18-acre campus with office buildings, Laboratories, hostels, Guest house, Canteens and Residential colony. During the last **45** years, the Institute has trained many power sector personnel in the area of Transmission & Distribution of Power, who are manning various important positions in Power Sector of the Country. The PSTI, Bangalore is equipped with the laboratories for Power System Studies, Power System Simulation, Relay Testing and High Voltage Testing. The Hot Line Training Center, also a unit of NPTI in Bangalore, imparts live line maintenance training of High Voltage transmission lines up to 400KV. The Institutes have experienced Faculty members, Trainers, Laboratories, etc.

WHY YOU SHOULD JOIN?

Power Sector is a continuously expanding sector of Indian infrastructure contributing significantly to the GDP. The Indian Electricity Act, 2003 has opened private sector participation in the Transmission & Distribution of Power creating a large demand for the trained persons in Electrical Utilities.

The main objective of the course is to create technically sound and trained manpower readily available for recruitment to the power utilities dealing with Transmission & Distribution of Electrical Power.

This is a job oriented **Diploma Engineer Program** for those who desire to make a career in the power sector. On successful completion of this course, the Engineers will get their knowledge and skills sharpened, paving the way for better employment opportunity in various power companies.

PLACEMENT:

NPTI maintains close linkage with companies. Placement assistant will be provided by the Institute. The previous trainees got placement in Sterlite Grid, Bajaj Electricals, Wind World India Ltd., Toshiba Transmission and Distribution, JVS Electronics, National Contracting Company, Atkins Global, Easun Reyrolle Ltd, KEC (International & Domestic), Kalpataru Power Transmission Co. (International & Domestic), Adani Power, Kalkitech, Suzlon, Genus Power & Infrastructure Company, Manav Energy Pvt Ltd, Oblum Electric, Teems India Towerlines Pvt. Ltd., Open Systems International, Arcadis, Schweitzer Engineering Lab Pvt. Ltd., Manikaran Power Etc. However, the placement depends on the response from the Industry and performance of the trainees.

ELIGIBILITY:

- **PDC in Transmission & Distribution Systems: Diploma in Electrical or Electrical & Electronics Engineering**

AGE LIMIT :

No age limit.

SELECTION CRITERIA FOR ADMISSION:

Percentage of marks obtained in Diploma course or equivalent examination.

NO. OF SEATS:

60 (Sixty) in both the courses. Reservation for SC, ST, OBC & PH will be as per Govt. norms in the non-sponsored category.

FEES:

Residential/ Non- Residential	Course Fee	GST on course fee @ 18%	Lodging Charges (Optional)	Caution Money (Refundable)	Total including GST	1st Instalment	2nd Instalment
Residential	80,000	14,400	27,000	15,000	1,36,400	75700	60700
Non- Residential	80,000	14,400	0	15,000	1,09,400	62200	47200

SPONSORED CANDIDATES:

The candidates sponsored by Power Utilities/Corporations/Companies and fulfilling the eligibility requirement will be admitted directly may contact the office for information.

HOW TO APPLY:

Application form along-with prospectus can be obtained from the Institute by paying cash or at the following address by post sending A4 size self-addressed envelope along with a Crossed Demand Draft for Rs. 200/- in favour of "**PSTI, Bangalore**".

OR

Download the Application form from our website and send it as directed in the application along with a E-Transfer receipt/DD of Rs 200/- drawn in favour of "**PSTI, Bangalore**".

The application form complete in all respects along with the attested copies of documents listed in the application form are to be sent or submitted in person to the address mentioned below latest by **15.10.2018**. NPTI shall not be responsible for any postal delay or loss of mail.

Address for Correspondence

Head of Institute

National Power Training Institute-PSTI,

Subramanyapura Road, Banashankari-II Stage,

Near Yarrab Nagar Bus stop, Bangalore-560 070

Fax: 080-26713758

Tel. 080-26713758, 26934369

Email: pstinpti@yahoo.com Website www.nptibangalore.in

GENERAL

1. **Security Deposit:** An amount of Rs. 15,000/- as Caution Money (Refundable) against use of Library, Hostel, Stores, etc. is to be deposited by the student at the time of joining the Institute.
2. **Hostel:** No outsiders – known or relatives – shall be permitted to use hostel facilities for whole or part of the day.

3. REFUND POLICY:

- A) **Refund on Discontinuation of the course:** In case a selected candidate discontinues from the program for any reason, no part of course fees and lodging charges will be refunded. The boarding charges excluding taxes and the security deposit become refundable at the time of discontinuation after the dues.
 - B) **Refund on Completion of Course:** Only the Security Deposit will be refunded after deduction of dues, if any.
4. **Late Fee:** If a candidate fails to deposit any installment of course fee by the due date, late fee @ Rs. 100/- per week will be chargeable from the due date.
 5. The right of admission will rest with NPTI. Candidates found irregular in attending training or uninterested shall not be considered for placement and/or their course certification will be reviewed.

Mode of Payment:

- Payments must be in the form of **e-transfer / DD** only in favour of **Power Systems Training Institute payable at Bangalore.**
- Name of the trainee & course name shall be written on the backside of the DD.
- The bank transaction id and date shall be sent by mail to pstinpti@yahoo.com in case of e-transfers.

Bank Details in case of e-transfer:

- Name of the Beneficiary : Power Systems Training Institute, Bangalore
- Name of the Bank & Branch : State Bank of India, Banashankari II Stage Branch
- Address of the Branch : 9th Main Road, Banashankari-II Stage, Bangalore - 70
- NEFT IFSC Code : SBIN0006767
- Account Type : Current
- Account No. : 10031210203
- MICR No. : 560002008
- RTGS IFSC Code : SBIN0006767
- GSTN: : 29AAALN0083C17B
- Pan No.: : AAALN0083C
- Tan No: : BLRP00338C
- SAC (Service Accounting Code) : Commercial Training 999293

Note: PSTI is a non-profit making educational institute. It does not come within the purview of I.T Act for deduction of tax at source vide 10(23C) (iii ab) of I.T Act 1961. Hence no tax deductions at source shall be done against PSTI payments. TAN No: BLR P00338C; PAN No: AAALN0083C.

HOW TO REACH THE INSTITUTE: The Institute is about 10 KMs south of Bangalore City Railway Station/Bangalore City Bus Stand and 45 KMs from Bangalore International Air Port from where Pre-paid taxi / Auto-rickshaw services are available. City buses also ply via Yarab Nagar bus stop (bus route Nos. 15C, 15E, 15H, 210A, 210R and 210E from Bangalore City Bus Station).

Syllabus of PDC in T&D Systems

1. GENERAL INTRODUCTION-1 week

Power Generation: Thermal, Hydro, Nuclear and Gas, Renewable Energy Sources Generation, Transmission & Distribution Scenario of India.

Types of generation: Conventional and Renewable, Thermal Power Plant, Hydro Power Plant, Gas Power Plant, Nuclear Power Plant, Co-generation.

2. Power Transmission Line Engineering- 4 weeks

EHV Transmission system in India, Tower types, Conductors, Earth wire, Insulators,

Statutory clearances, Surveying, Route Alignment, Tower erection, Tower Testing Stringing, Transmission Line Commissioning, Maintenance of transmission line, CAD, Software's used in Transmission lines, Tower testing at CPRI.

3. Hot line maintenance- 4 weeks

Pole climbing, Tower climbing on 11kv, 32 kv,66kv, 110kv,220kv,400kv . Ropes, knots, cold line mtce, Hot line mtce, Tools mtce, Tools for different voltages, Safety equipment using, Substation mtce in live and cold, Tools in S/s. etc., Demo of Thermovision scanning, Hot stick method, Bare hand method.

4. EHV Substation Planning & Engineering- 1 week

Substation Planning, Site selection, Layout of substation & Civil works, Selection of main equipment, Selection of switchgear, Electrical clearances, Instrument transformers-selection & Performance, Control & Instrumentation in Substations, Substation auxiliaries, Substation grounding practices, Practical Demo on grounding. Load flow studies, Tutorial on load flow studies.

5. High Voltage Testing of Power System Equipment - 1 week

Testing of Power Transformers, Testing of Insulators, Testing of Surge Arrestors, Testing of Switchgear,

Testing of Transformer oil, Dissolved Gas Analysis.

6. Power System Protection - 1 week

Overview of Power System Protection, CTs and PTs, Generator Protection, Transformer Protection, Transmission Line Protection, Transmission line voltages in Power Systems, Protection against over voltages, Insulation Co-ordination.

7. Operation and Maintenance of EHV Substation Equipment – 1 week

Transformers-Construction, Connections, Tap Changing Mechanism & Parallel Operation, Testing and Protection of transformers, O&M of Transformers, Selection, Sizing, performance Analysis of HV Circuit Breakers, Transformer Neutral Earthing, O&M of HV Circuit Breakers, Operation and Maintenance of Distribution Transformers, Operation and Maintenance of Distribution Switchgear. Introduction to HVDC Transmission.

8. Distribution System Engineering - 4 weeks

Distribution systems overview, Planning, Design and selection of pole structures conductors insulators etc., Pole erection, conductors stringing, Layout of earth wire, neutral wire guarding, jointing of conductors, jumpering etc.; Location, construction and erection of pole mounted sub stations; Selection, fixing of switches, fuses etc., Operation & Maintenance of Distribution Lines.

9. O & M of Distribution Substations and Distribution Metering – 1 week

Distribution Substation - types, layouts, bus bar arrangements; Selection of Distribution substation equipment, Distribution substation relay schemes, O&M of Relay schemes, Substation Operation overview, Code of practice in Sub Station Operations, Work permits, line clear procedure, Maintenance of log books, Records etc., Distribution Substation Operation - Case studies; Types, design and construction of distribution meters, Failure analysis of Distribution Meters.

10. Power Cables and Jointing Techniques-1week

Power Cable - Design, Construction, Testing, Operation & Maintenance; Troubleshooting of Power Cables; LT and HT Cable jointing, Termination and Accessories; Cable fault detection and repair; Demo on LT & HT Power cable jointing - End joint & Straight through joint.

11. Electrical Safety and Statutory Regulations-1w

Safety Requirement, Hazards, Electrical Accidents and prevention, First Aid, Firefighting-Types of fire, firefighting/system, fire extinguishers.

12. Labs – 4 weeks

Despatcher Training Simulator

Relay Testing, Power System Studies

HV Testing, Instrumentation

Tower testing

13. Technical Visits-2 weeks: Sub-stations, Transmission Lines, Power Plants, Manufacturing units, Testing Centers, etc.

Serial No.

APPLICATION FORM
Post Diploma Course in
TRANSMISSION & DISTRIBUTION SYSTEMS

SESSION 2018

Paste Passport
sized
photograph

1. Full Name of the candidate (In Capital Letters) : _____

2. Father's Name : _____

3. Date of Birth (in Christian Era) (as given in 10th/SSLC/SSC)

Date		Month		Year			

4. Sex (mark √)

Male	Female
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5. Marital Status (mark √)

Single	Married
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6. Nationality

7. Category (mark √)

SC	ST	OBC	PH	GEN	SPONSORED
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8. Address for communication

PIN CODE						
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Telephone No. _____ Fax No. _____

E-mail ID: _____

9. Permanent address (if different from above)

PIN CODE						
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10. Educational Qualifications (Starting from highest qualification)

Sl. No.	Examination passed	Branch/ Subject	Year of passing	College/ University	Percentage of marks/class (as per University norms)
1.					
2.					
3.					
4.					

Self Attested photocopy of qualifying degree, mark sheet and proof of date of birth are to be sent along with application form.

11. Experience after Graduation (if any)

Sl. No.	Designation	Name of organization	Period of Employment		Nature of duties
			From	To	
1.					
2.					

12. Proof of Identity (attach copy)

(Employer ID/Passport/Driving License/PAN Number, etc)

13. Any other information:

(Offer of job in hand, continuing education, bond/liability/commitments etc.)

15. **List of Documents to be attached with the application:**

- a) Application fee of Rs. 200/- in the form of a crossed DD in favour of PSTI, Bangalore (In case the application is downloaded from website)
- b) One Passport size photo
- c) Self Attested photocopy of qualifying diploma and age
- d) Self Attested photocopy of Mark sheet of the qualifying degree & conversion formula obtained from university in case of Grade Points.
- e) Sponsorship Certificate, Experience Certificate, Salary Slips/Bank Statement (if applicable)
- f) Community Certificate (if applicable)

DECLARATION

The above furnished information are true to the best of my knowledge and belief. In case of anything found misleading or wrong or incomplete I agree that my candidature is liable to be rejected without any notice.

Signed on this _____(day) of _____(month) _____(year)

Place: _____ Signature of Candidate _____

Date : _____ Name (in full) _____

Note: Application complete in all respects along with the self attested copies of the documents indicated must reach :

**The Head of Institute,
National Power Training Institute,
Power System Training Institute,
Near Yarabnagar Bus stop,
Banashankari II stage,
Bangalore 560 070**

FOR OFFICE USE ONLY

Enrolment No:	<input type="text"/>			
Application Fee for Rs. 200/- DD No.	<input type="text"/>	Date	<input type="text"/>	
Bank	<input type="text"/>	Branch Code	<input type="text"/>	
Type of Candidature	<input type="text"/>	<input type="text" value="Non-Sponsored"/>		
Certificate Proof attached :	Age	<input type="text" value="Yes"/>	<input type="text" value="No"/>	
	Qualification	<input type="text" value="Yes"/>	<input type="text" value="No"/>	
	SC/ST/OBC	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text" value="NA"/>
	Sponsorship	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text" value="NA"/>
