

Workshop Fee

NON RESIDENTIAL* : 23000 INR + GST @18 %
RESIDENTIAL ** : 28,000 INR + GST @18 %

Registration

Opens From : 10th July 2018 till 25th August 2018

Mode of Payment

Online

Name of the Beneficiary : Power Systems Training Institute
Bank & Branch: SBI - Banashankari, Bangalore - 560 070
Account No : 10031210203
MICR No.: 560002008 |
RTGS IFSC Code : SBIN0006767

Participants Details

Name & Designation , Company, Department, Email, Phone

Cancellation/ Refund Policy

Cancellation Within 2 days post closing of registration windows are subject to the 50% event fees minus administrative charges.

Further cancellation is not refundable

* Non residential participants have to arrange their own accommodation.

** Residential accommodation will be in PSTI campus at Executive Hostel.

WORKSHOP AGENDA

Schedule / Sessions	Topic	Points Covered
DAY -1 SESSION - 1	Introduction and Recent trends in Protection	Need for Protection General Philosophy Protection Schemes Types of Protection Recent Trends Going beyond settings Advantage of Automation Preventive Maintenance
DAY -1 SESSION - 2	Transmission Line Protection	Distance protection philosophy Backup Protection Adaptive relaying Case studies
SESSION - 3	Transformer Protection	Importance of Transformers protection Issues experienced By Transformers Electrical Protection Mechanical Protection
SESSION - 4	Tripping Analysis For Line Events	Characteristics of fault on line Impedance characteristics Fault Location Case Studies
DAY -2	Industry Visit	Visit to PRDC
	Industrial Visit	Visit to Relay Manufacturing Unit

WORKSHOP AGENDA

Schedule / Sessions	Topic	Points Covered
DAY -3 SESSION - 5	Generator Protection	Generator protection schemes Importance of setting coordination with generator capability curves and generator controls Selection of Protection Scheme based on machine rating and grounding methods
SESSION - 6	Generator Protection	Protection against abnormal operation and external fault Loss of excitation protection Out of step protection Phase backup protection 95% and 100% stator earth fault Differential protection
SESSION - 7	Power Swing And Out Of Step Protection Relay Setting	Introduction Power-swing phenomena and their effect on transmission line relaying Power-swing detection methods PSB and OST protection philosophy
SESSION - 8	Bus Bar Protection	Different Bus Bar Schemes Application of High and Low Impedance Protection Partial Bus Bar Protection



Program coordinator : V. Suresh Babu

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National Power Training Institute

Power Systems Training Institute

P.O Box No 8201, Subramanyapura Road

Banashakari 2nd Stage

Bangaluru-560070, INDIA

Program coordinator : Abhishek Saxena

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Power Research & Development Consultants Pvt. Ltd.

5, 11th Cross Road,

West of Chord Road 2nd Stage, Nagapura,

Bangaluru, Karnataka - 560086

Website: www.prdcinfotech.com

3 DAYS

THREE - DAY NATIONAL WORKSHOP ON

RECENT TRENDS IN POWER SYSTEM PROTECTION



DATES

29th - 31st August 2018

VENUE

NATIONAL POWER TRAINING INSTITUTE

Power Systems Training Institute

P.O Box No 8201, Subramanyapura Road

Banashankari 2nd Stage

Bangaluru-560070, INDIA

About the Workshop

National Power Training Institute (NPTI) along with Power Research & Development Consultants Pvt. Ltd (PRDC) presents a national workshop on Recent Trends in Power System Protection.

Protection of the electrical system is one of the important tasks in the power engineering field. Power system protection engineering field deals with precautionary measures to be taken to safeguard the power system during abnormal operating conditions. The practice of protection engineering involves conducting periodic fault studies followed by protective relay setting, checking and co-ordination studies. These studies are necessary to ensure that the wide variety of protective relays function correctly with proper discrimination to provide the requisite reliable, sensitive and selective isolation of faulty power system equipment. The topics are mentioned in the 'Workshop Agenda'.

National Power Training Institute PSTI Bengaluru

National Power Training Institute (NPTI), an ISO 9001 & ISO 14001 organization under Ministry of Power, Government of India is a National Apex body for Training and Human Resources Development in Power Sector with its Corporate Office at Faridabad. NPTI had been providing its dedicated service for more than five decades.

NPTI has trained over 2,92,061 Power Professionals in regular Programs over the last 5 decades. NPTI is the world's leading integrated power training institute. NPTI is the only institute of its kind in the world with a wide geographical spread and covering a wide gamut of academic and training programs in Power Sector. NPTI's committed faculty is providing excellent training in the Power Sector, which is the most important sector among various infrastructure sectors. Training provided by NPTI on Generation Simulators has improved Plant Load Factor of Generating Units, has increased the availability of Transmission & Distribution Systems and has decreased Aggregate Technical & Commercial Losses. This in turn is providing more power to the country. Thus the training being provided by NPTI is having a cascading effect in the growth of GDP and economy of the country.

NPTI operates on an all India basis through its Nine Institutes in different zones of the country .

NATIONAL POWER 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. Engineers from various state/central electricity utilities, power companies, power corporations, industries, engineering institutions and engineers from Afro-Asian countries are participating in training courses. Well experienced field engineers, professors, and managers are drawn as faculty from Industries, Power Companies/Corporations/Utilities, and Academic Institutes. NPTI-PSTI has emerged as one of the few of its kind in India, in imparting training in all facets of Power System Operation to fresh and serving engineers of all the State/ Regional Electricity Boards and Power Supply Undertakings in the country. It has also been conducting training programs for international participants from countries like UAE, Afghanistan, Nigeria, Bhutan, Sri Lanka, Oman etc.

The National Power Training Institute has been entrusted with the responsibility of training and certification of System Operators of Load Despatch Centres across the country in 'BASIC LEVEL', 'SPECIALIST LEVEL' and 'MANAGEMENT LEVEL'.

About PRDC

We, Power Research and Development Consultants Pvt. Ltd (PRDC) is a Bengaluru based pioneering global consulting house in the Power Business for over two decades and is among the largest in its class. We are an ISO 9001:2015 QMS certified company adhering to industry standard policies and management practices.

MiPower®- Power System Simulation Software is the flagship product, Made in India and developed by the experts having vast experience in power system studies and development of high performance computer programmes. PRDC is recognized as ace trainer in power engineering discipline. PRDC provides training to power engineers working in generation, transmission and distribution utilities, industries, consulting, manufacturing, research firms, academic institutes for over two decades. Our faculty comprises of highly qualified technocrats with

doctoral degree from the prestigious institutions combined with industry experience spanning over 15 to 40 years.

PRDC has been associated with number of Industries and Power Utilities providing the solutions on following Power System Protection areas:

- Relay co-ordination and SETTING calculations
- Supply of Protection Database Management Tool
- Design of Special Protection Scheme
- Review of Unit Protection System and Computations.
- Review of Protection Scheme Design
- Protection Co-ordination, Protection Audit of Substations
- Tripping Analysis for events/disturbances
- Design and review of Transmission Line Protection, Generator Protection, Transformer protection, Bus Bar Protection, Breaker Fail Protection etc.

Who should attend

The workshop is designed to impart practical state-of-the-art protection techniques adapted in the Electric utility (Generation, Transmission, and Distribution) systems and industrial systems. The state-of-the-art techniques will be utilized to edify the aspiring participant, taking examples of actual public and private electric utilities and industrial plants. Such training is expected to improve the proficiency level and competence of the personnel involved.

The personnel involved in below organization would certainly appreciate the contents of the workshop and can get benefit from the same.

- Power Utilities
- Process industries,
- Consulting firms Engineers,
- Academia and Researchers

