

PROGRAMME CATEGORIES – 2020 – 2021

1. National Regular Programmes

National Regular Training Programmes are organized by RECIPMT for executives working in national power sector utilities on state of art topics and also area of interest of power utilities. These Training programmes are organized on both technical and non-technical topics covering advance areas related to power sector such as, Power Generation, Transmission, Distribution, Renewable sources, Finance, Management, HR and other important topics related to power sector. This year considering the Covid-19 Pandemic Scenario, in addition to in campus class room Training programmes RECIPMT has introduced some online webinars.

A. On Line Webinars for National Power Sector Executives

Sl. No	Name of the Programmes	Contents	No. of Days/ Dates
1	SOLAR POWER GENERATION – GRID ENABLING AND BALANCING	Solar Power Generation Technologies, Standalone and Grid connected systems, Rooftop PV and MW size PV systems, Erection, Testing and Commissioning - Operation and maintenance aspects of solar PV systems, issues in grid enabling and grid balancing, performance of solar PV systems	2 days/ 19-20 Nov 2020
2	DISASTER MANAGEMENT – SAFETY ASPECTS	Types of Disasters, Disaster Management Plan, Organizational best practices, Restoration systems, Procedures for Safety and Development of Manuals, and Guidelines, Accident Prevention methods; Safe practices, Safety Audits & First Aid Practices.	2 days/ 26-27 Nov 2020
3	DISTRIBUTION TRANSFORMERS - OPERATION & MAINTENANCE AND FAILURE MINIMIZATION	Design and Manufacturing of Distribution Transformers, Erection, Testing and Commissioning of Distribution Transformers, Transformer Oil Characteristics, Filtration and Reclamation Techniques, Maintenance and Protection of Distribution Transformers, and Failure Analysis	2 days/ 04-05 Dec 2020
4	SMART METERING TECHNOLOGIES & APPLICATIONS	Smart metering practices in power distribution utilities, Regulations & Standards, Installation methods, Reduction of losses, Energy Management, need and benefits, renewable era and need of smart meters	2 days/ 10-11 Dec 2020
5	OPERATION, MAINTENANCE & PROTECTION ASPECTS OF DISTRIBUTION SUB-STATIONS AND LINES	O & M of Switching Equipment, Protection Equipment, Control Equipment and Transformers in power distribution system - O&M of Distribution Substation and Lines, Code of Practice in Operations, Work permits, line clear procedure, Maintenance of log books, Records, etc., Distribution Automation & SCADA and Concept of Intelligent Substations	2 days/ 18-19 Dec 2020
6	TARIFF POLICY AND SUBMISSION OF ARRs & REGULATORY COMPLIANCES	Provisions on Tariff in EA 2003 and Tariff policy and Structures, Submission of ARRs by Power Companies; Tariff proposals in PPAs, fixation of tariff for Generation, Transmission and Distribution (retail tariff); Role of Regulators	2 days/ 29-30 Dec 2020
7	LABOUR LAWS - PROCEDURES IN DEALING WITH COURT CASES	Basic Concepts & Sources of Law - Procedural and Substantial Law; Jurisdiction of Courts; - Alternate Dispute Mechanism - Lok Adalats - Types of Writs - Labour Laws - ESI, EPF and Contract Labour Act, Employees' Compensation Act - Procedure to be Followed & Pursuance Required.	2 days/ 07-08 Jan 2021

B. Class Room Training Programmes for National Power Sector Executives

S. No	Name of the Programme	Contents	No. of Days/Dates
1	DESIGN, CONSTRUCTION & QUALITY CONTROL OF EHV SUBSTATIONS	Transmission Planning – Design of EHV Sub-station – Bus-Bar Arrangement – Foundation Laying & Erection of Sub-Station Structures – Erection of Power Transformer and Switchgears including Testing & Commissioning – Earthing of EHV Sub-Station – Protection Systems – Sub-Station Automation	5 days/ 05–09 Jan 2021
2	POWER PURCHASE AGREEMENT AND TARIFF RELATED ISSUES	Undertaking and obligations of the developer and Power Utility; Acceptance test procedure; Sale and purchase of energy; Tariffs, Force majeure, Buy-out clause, Dispute Settlement Mechanism, Arbitration & Reconciliation; Role of Regulatory Commissions; PPA for Renewable, Power Market, Negotiating PPAs-Front Loading & Project Based Security.	4 days/ 19–22 Jan 2021
3	MATERIAL MANAGEMENT, PROCUREMENT PROCEDURES & e-PROCUREMENT	Materials Management – An Overview – JIT, Lean Inventory models, transportation models, ESI, Vendor managed inventory, CPFR value analysis – Purchasing system – Vendor rating and development – Forecasting, strategic sourcing, Logistics, Inventory and Stores Management – Agile Manufacturing – Logistics: 3PL, 4PL – Contract Management and Managing Risk – Spare Parts Management – e-procurement & GeM.	4 days/ 03–06 Feb 2021
4	DISTRIBUTION LOSSES MINIMISATION AND SMART METERING AND ADVANCE PRACTICES	Distribution Losses, Methods of Detection of Pilferage and Malpractices, Analysis of commercial and technical losses, Measures for arresting pilferage of electricity, Administrative, legal and technical measures for minimization of theft of electricity, Assessment and Penal Provisions – Electricity Act Provisions, Vigilance Operations & Case studies.	4 days/ 09–12 Feb 2021
5	POWER FACTOR IMPROVEMENT AND REACTIVE POWER MANAGEMENT	Effect of Reactive Power – Correction Methodology – Erection, O&M and fault analysis of Shunt Capacitor and Series Capacitors – 11 KV and LT Switched Capacitors – Capacitors Bank Formation, Neutral Grounding – Erection, Commissioning, O&M, Protection of Reactors – Factory Testing of Capacitors – FACT and Static Var Compensation & Case studies	4 days/ 23–26 Feb 2021
6	POWER TRANSFORMER – TESTING, COMMISSIONING, PROTECTION & MAINTENANCE	Insulation resistance measurement, winding resistance measurement, magnetic current test, magnetic balance test, vector group confirmation, short circuit test and differential stability, ref stability test, etc., Conditions leading to faults, protective relays, differential protection, overcurrent protection, ground fault protection, monitors for protection.	4 days/ 02–05 Mar 2021

7	DESIGN, TECHNICAL SPECIFICATIONS, CONSTRUCTION, TESTING & COMMISSIONING OF DISTRIBUTION SUB-STATION AND LINES	Design, Technical specifications, Construction, standards Testing & Commissioning of Sub-station (Indoor & Out door) - Earthing practices in a substation - Protection in a Sub-station – Battery and Battery Chargers	5 days/ 15-19 Mar 2021
8	PROTECTION SYSTEM IN EHV SUB-STATIONS & LINES	Fundamentals of protection and Code of Practice – Design, Selection, & Installation of Instrument Transformers - Protection aspects of EHV sub-stations - Transmission line protections, Transformer and Reactive Protection – AC/DC logics - Transmission lines protection – Distance protection schemes for long and short lines.	5 days/ 22-26 Mar 2021



PLANNING AND MANAGEMENT OF POWER TRANSMISSION AND DISTRIBUTION SYSTEMS
21-10-2019 TO 29-11-2019



REC INSTITUTE OF POWER MANAGEMENT & TRAINING
(formerly known as Central Institute for Rural Electrification)
TRAINING PROGRAMME ON
**MAINTENANCE OF SUBSTATION, TESTING PREDICTIVE MAINTENANCE
EARTHING, SAFETY, RULES AND REGULATIONS, IS"**
15-07-2019 TO 18-07-2019

