



REC INSTITUTE OF POWER MANAGEMENT AND TRAINING

(FORMERLY CENTRAL INSTITUTE FOR RURAL ELECTRIFICATION)

OF

REC LIMITED

(FORMERLY RURAL ELECTRIFICATION CORPORATION LIMITED)

ANNOUNCES A

3 DAY FREE TRAINING PROGRAMME ON "ELECTRICAL SAFETY" IN POWER DISTRIBUTION

INTRODUCTION

Power is an essentially sought after infrastructure used every hour, every minute, besides being a key input for sustained economic growth of the country. Electricity despite being multi-functional deriving many benefits has a deficiency being unsafe under specific conditions. It is generally stated that electricity is an excellent servant facilitating many benefits but once it becomes a master going out of control can cause devastation enforcing human deaths and heavy property loss.

Electrical safety is considered a major concern, safety guidelines or rules were formulated almost from the time electricity was introduced in this country, which were amended from time to time, particularly whenever there were technological changes or changes in the status of power supply. Thus, even Electricity Supply Acts, 1910 and 1948 had their share of rules on safety. Finally, all of them were codified under Indian Electricity Rules, 1956, after State Electricity Boards were formulated in each state to administer power supply in that state. These rules were in vogue for a long time till reforms were contemplated under IE Acts 1998 and 2003 where in certain far reaching structural changes and new institutions were brought in the power sector.

In line with these changes, section 53 of the IE Act, 2003 entrusted the responsibility of formulating a new safety code covering construction, operation and maintenance of Electrical plants and lines on CEA in consultation with states, to safe guard public and personnel engaged in generation, transmission, distribution, trading of electricity or use of electricity from personal injury or damage.

CEA in consultation with states formulated CEA's Regulation on Measures relating to safety and Electricity Supply, 2010, which was further amended in 2015, 2018 and 2019 and CEA's Regulations on construction, operation and maintenance of electrical plants and lines in 2011. Personnel functioning in generation, transmission, distribution, trading of electricity shall be fully conversant with these regulation to ensure that there are no personnel injuries or damage to property in the process of achieving the ultimate aim of 100% safety and 0% accidents, as accidents besides causing direct cost of paying compensation, medical expenses etc., can also result in longer Interruption and loss of revenue, losing skilled personnel, damage to equipment/machinery, loss of time of supervisory staff, loss of reputation and lowering of employee morale. As per rules, the officers of distribution have the responsibility in inspecting consumer installation and warn them of likely accidents or even to disconnect the service if accident is imminent.

Considering the above, as a part of **Capacity Building of Power Sector Executives, REC Ltd. sponsors training programs for its Clientele Organizations** since last 2 years. This year (2020-2021) a **3 day program on "Electrical Safety" for Power Utilities was sponsored by REC Ltd.** The programme will be conducted by RECIPMT free of cost to the Power Utilities to create awareness about Safety Aspects in Power Distribution.

PROGRAMME OBJECTIVES

- To create awareness on safety regulations and its latest amendments to ensure an accident free distribution system
- To discussion on Earthing, bonding, lightning and surge protection and their role in preventing accidents, Electrical Shock Hazards, first aid, artificial respiration & Protection Measures
- Familiarize participants with fire protection systems and fire extinguishers and their application, possible location of fire hazards and prevention
- Comprehensive study of causes of accidents, guidelines for prevention, accident reporting review, safety tools and safety audit

PROGRAMME CONTENTS

- Provisions of Electricity Act, 2003 on safety
- Safety code, policy, objectives, action plan, safety committees and safety Manual
- CEA's Regulation on Measures relating to safety and Electricity Supply, 2010, as amended in 2015, 2018 and 2019
- Guidelines in safety in mechanical work areas, electrical areas, occupational health, etc.
- Earthing and bonding, Methods of measuring Earth resistance and Soil behaviour
- Earthing Practices in 33/11 KV Sub-Stations and Earth Mat design
- Fire hazards, firefighting systems and prevention
- Lightning and surge protection in substation
- Types of guarding, their applications and safety clearances
- Accidents reporting, review, identifying causes, prevention and safety tools
- Safety Audit and Case Studies
- First Aid Practices in case of Electrical and Other Accidents

TARGETED GROUP

Junior and Middle Level Executives working in the Power Distribution Utilities can be nominated for the above programme.

HOW TO AVAIL THE PROGRAMME

Power Distribution Utilities, which are interested to conduct the programme for their Executives at their premises may send their request to: **The Director, REC Institute of Power Management and Training**, N.P.A. Post., Shivarampally, Hyderabad-500052, **E-mail: recipmt@gmail.com**.

There is no course fee for the Program and it is sponsored by REC Limited for its Clientele Organization. The Program will be conducted on First Come First Serve basis. However, Power Utilities has to provide at least **25-30 participants per batch** and also to provide the training infrastructure like Conference Hall/Classroom with all teaching aids, transportation to the visiting faculties including pickup and drop from Rail/Bus Station/Airport/Place of Halt, etc.

Further, the Utilities has to arrange Lunch and 2 time Tea to participants and guest faculties, Course Kit with Course Material, Banner, Certificates and Group Photos, the expenses towards the same will be reimbursed by RECIPMT.

For further information please contact **Dr. R. Mohd. Nafi, GM & Program Coordinator** in his mobile 94412 96670. The Utility has to depute an Officer/Coordinator (as one point contact) for conduct of the above programmes.



आरईसी इंस्टीट्यूट ऑफ पावर मैनेजमेंट अँड ट्रेनिंग
(पूर्व सेंट्रल इंस्टीट्यूट फॉर रुरल इलेक्ट्रिफिकेशन)

REC INSTITUTE OF POWER MANAGEMENT AND TRAINING
(formerly known as Central Institute for Rural Electrification)

विद्युत मंत्रालय, भारत सरकार के अधीन नवरात्र CPSE का संस्थान / An Institute of Navaratna CPSE under Ministry of Power, Govt of India
शिवरामपल्ली, एनपीए पोस्ट, हैदराबाद-500052 / Shivarampally, NPA Post, Hyderabad-500052

दूरभाष/Phones: 040-29805897, 60504526, 29808583 फैक्स/Fax: 040-29805896, होस्टल/Hostel: 040-29807252

e-mail: recipmt@gmail.com; cire.rec@gmail.com; ciretrg@recl.in

वेबसाइट / Website : www.recipmt.com & www.recindia.com

RECIPMT/Trg/Safety/20-21/ 775

Dt. 05.11.2020

To All Sr. CPM/CPM
REC Ltd.

Sub: 3 day free training programme on "Electrical Safety" for Power Utilities – Reg.

Sir/Madam,

It is glad to inform that REC Ltd. as a part of Capacity Building of Power Sector Executives, sponsors training programs for its Clientele Organizations since last 2 years. This year a **3 day program on "Electrical Safety" for Power Utilities was sponsored by REC Ltd.** The programme will be conducted by RECIPMT free of cost to the Power Utilities to create awareness about Safety Aspects in Power Distribution.

Electricity despite being multi-functional deriving many benefits has a deficiency being unsafe under specific conditions. It is generally stated that electricity is an excellent servant facilitating many benefits but once it becomes a master going out of control can cause devastation enforcing human deaths and heavy property loss. Hence, Electrical safety is considered a major concern and safety guidelines/ rules were formulated and codified under Indian Electricity (IE) Rules, 1956. In line with the above, section 53 of the IE Act, 2003 entrusted the responsibility of formulating a new safety code covering construction, operation and maintenance of Electrical plants and lines on CEA in consultation with States, to safe guard public and personnel engaged in generation, transmission, distribution, trading of electricity or use of electricity from personal injury or damage.

CEA in consultation with States formulated CEA's Regulation on Measures relating to Safety and Electricity Supply, 2010, which was further amended in 2015, 2018 and 2019. Personnel functioning in the electricity sector shall be fully conversant with these regulation to ensure that there are no personnel injuries or damage to property in the process of achieving the ultimate aim of 100% safety and 0% accidents. As accidents causes direct cost of paying compensation, medical expenses, etc., can also result in longer interruption and loss of revenue, losing skilled personnel, damage to equipment/machinery, loss of time of supervisory staff, loss of reputation and lowering of employee morale. The brochure giving the details of the programme is enclosed for kind perusal.

The programme will be **conducted on first come first serve basis**. Therefore, it is requested to kindly send the brochures to the Power Utilities in your jurisdiction for getting their consent for conducting the above programme at their premises at the earliest.

Enclosed: as above.

Yours Faithfully,

Santosh Kumar Sahu
Director



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ANNOUNCES A

**3 DAY FREE TRAINING PROGRAMME ON
"ELECTRICAL SAFETY" IN POWER DISTRIBUTION**

INTRODUCTION

Power is an essentially sought after infrastructure used every hour, every minute, besides being a key input for sustained economic growth of the country. Electricity despite being multi-functional deriving many benefits has a deficiency being unsafe under specific conditions. It is generally stated that electricity is an excellent servant facilitating many benefits but once it becomes a master going out of control can cause devastation enforcing human deaths and heavy property loss.

Electrical safety is considered a major concern, safety guidelines or rules were formulated almost from the time electricity was introduced in this country, which were amended from time to time, particularly whenever there were technological changes or changes in the status of power supply. Thus, even Electricity Supply Acts, 1910 and 1948 had their share of rules on safety. Finally, all of them were codified under Indian Electricity Rules, 1956, after State Electricity Boards were formulated in each state to administer power supply in that state. These rules were in vogue for a long time till reforms were contemplated under IE Acts 1998 and 2003 where in certain far reaching structural changes and new institutions were brought in the power sector.

In line with these changes, section 53 of the IE Act, 2003 entrusted the responsibility of formulating a new safety code covering construction, operation and maintenance of Electrical plants and lines on CEA in consultation with states, to safe guard public and personnel engaged in generation, transmission, distribution, trading of electricity or use of electricity from personal injury or damage.

CEA in consultation with states formulated CEA's Regulation on Measures relating to safety and Electricity Supply, 2010, which was further amended in 2015, 2018 and 2019 and CEA's Regulations on construction, operation and maintenance of electrical plants and lines in 2011. Personnel functioning in generation, transmission, distribution, trading of electricity shall be fully conversant with these regulation to ensure that there are no personnel injuries or damage to property in the process of achieving the ultimate aim of 100% safety and 0% accidents, as accidents besides causing direct cost of paying compensation, medical expenses etc., can also result in longer Interruption and loss of revenue, losing skilled personnel, damage to equipment/machinery, loss of time of supervisory staff, loss of reputation and lowering of employee morale. As per rules, the officers of distribution have the responsibility in inspecting consumer installation and warn them of likely accidents or even to disconnect the service if accident is imminent.

Considering the above, as a part of **Capacity Building of Power Sector Executives**, REC Ltd. sponsors training programs for its **Clientele Organizations** since last 2 years. This year (2020-2021) a 3 day program on "Electrical Safety" for Power Utilities was sponsored by REC Ltd. The programme will be conducted by RECIPMT free of cost to the Power Utilities to create awareness about Safety Aspects in Power Distribution.

PROGRAMME OBJECTIVES

- To create awareness on safety regulations and its latest amendments to ensure an accident free distribution system
- To discussion on Earthing, bonding, lightning and surge protection and their role in preventing accidents, Electrical Shock Hazards, first aid, artificial respiration & Protection Measures
- Familiarize participants with fire protection systems and fire extinguishers and their application, possible location of fire hazards and prevention
- Comprehensive study of causes of accidents, guidelines for prevention, accident reporting review, safety tools and safety audit

PROGRAMME CONTENTS

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- Lightning and surge protection in substation
- Types of guarding, their applications and safety clearances
- Accidents reporting, review, identifying causes, prevention and safety tools
- Safety Audit and Case Studies
- First Aid Practices in case of Electrical and Other Accidents

TARGETED GROUP

Junior and Middle Level Executives working in the Power Distribution Utilities can be nominated for the above programme.

HOW TO AVAIL THE PROGRAMME

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Further, the Utilities has to arrange Lunch and 2 time Tea to participants and guest faculties, Course Kit with Course Material, Banner, Certificates and Group Photos, the expenses towards the same will be reimbursed by RECIPMT.

For further information please contact **Dr. R. Mohd. Nafi, GM & Program Coordinator** in his mobile 94412 96670. The Utility has to depute an Officer/Coordinator (as one point contact) for conduct of the above programmes.



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**3 DAY FREE TRAINING PROGRAMME ON
"ELECTRICAL SAFETY" IN POWER TRANSMISSION**

INTRODUCTION

Power is an essentially sought after infrastructure used every hour, every minute, besides being a key input for sustained economic growth of the country. The objective of power transmission sector in India is transmitting total power generated without any congestion, at voltages much higher than that at generation for achieving better voltage profile, higher reliability and lower losses, maintaining higher availability all through.

Electricity despite being multi-functional deriving many benefits has a deficiency being unsafe under specific conditions. As Electrical safety is considered a major concern, safety guidelines or rules were formulated almost from the time electricity was introduced in this country, which were amended from time to time.

Indian Electricity Rules, 1956 were in vogue for a long time till reforms were contemplated under IE Acts 1998 and 2003 where in certain far reaching structural changes and new institutions were brought in the power sector. In line with these changes, section 53 of the IE Act, 2003 entrusted the responsibility of formulating a new safety code covering construction, operation and maintenance of Electrical plants and lines on CEA, to be codified in consultation with states, to safe guard public inclusive of personnel engaged in generation, transmission, distribution, trading of electricity or use of electricity from personal injury or damage.

CEA is also asked to specify conditions for transmitting power, which shall be mandatory for any organization to transmit power. CEA in consultation with states formulated CEA's Regulation on Measures relating to safety and Electricity supply, 2010, which was further amended in 2015, 2018 and 2019 and CEA's Regulations on construction, operation and maintenance of electrical plants and lines in 2011.

Personnel functioning in generation, transmission, distribution, trading of electricity shall be fully conversant with these regulation to ensure that there are no personnel injuries or damage to property in the process of achieving the ultimate aim of 100% safety and 0% accidents as accidents besides causing direct cost of paying compensation, medical expenses etc. can also result in longer Interruption and loss of revenue, losing skilled personnel, damage to equipment/machinery, loss of time of supervisory staff, loss of reputation and lowering of employee morale.

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PROGRAMME OBJECTIVES

- To create awareness on safety regulations and its latest amendments to ensure an accident free transmission system
- Safety code, policy, objectives, action plan, safety committees and safety Manual pertaining to transmission
- Broad discussion on Earthing and bonding and lightning and surge protection in respect of transmission system i.e., EHT lines and substations including GIS and their role in preventing accidents, Electrical Shock Hazards & Protection Measures
- Familiarize participants with TAC regulations, fire protection systems and fire extinguishers, their application, specialized fire protection systems for power transformers, possible location of fire hazards and prevention
- Comprehensive study of causes of accidents, guidelines for prevention, accident reporting review and safety tools

PROGRAMME CONTENTS

- Provisions of Electricity Act, 2003 on safety
- Safety code, policy, objectives, action plan, safety committees and safety Manual
- CEA's Regulation on Measures relating to safety and Electricity supply, 2010, as amended in 2015, 18 and 2019
- CEA's Regulations on construction, operation and maintenance of electrical plants and lines
- Guidelines in safety in electrical areas, occupational health and safety clearances
- Earthing and bonding of EHT lines and substations
- Fire hazards, likely areas, firefighting systems and their applications and prevention
- Lightning and surge protection in substation
- Special fire protection systems for power transformers like Nitrogen injection, water Mist system- Integrated compressed air & foam system
- Accidents reporting, review, identifying causes, prevention and safety tools

TARGETED GROUP

Junior and Middle Level Executives working in the Power Transmission Utilities can be nominated for the above programme.

HOW TO AVAIL THE PROGRAMME

Power Transmission Utilities, which are interested to conduct the programme for their Executives at their premises may send their request to: **The Director, REC Institute of Power Management and Training**, N.P.A. Post., Shivarampally, Hyderabad-500052, E-mail: recipmt@gmail.com.

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