

One day technical training on Electrical Safety Methods to eliminate ignition of "FIRE due to SHORT CIRCUIT" IS732:2019 & IS3043:2018

Accidents due to electricity and failure of electronics system are common in India, comparatively much more than other developing countries. Lack of knowledge attributes to poor quality installation, which in turn creates major failures. Mis-interpretation of earthing requirement creates not only safety problems, but unnecessary expenditure as well. Cases where electronic equipment connected to separate earth electrodes in soil (earth pits called as chemical earth, maintenance free earth, digital earth, clean earth... etc) are common in industry, violating national and international standards.

This 1-day training covers the important design and installation techniques to achieve basic electrical safety based on the latest IEC 60364 (equivalent to BS7671/VDE0100) which will be highly beneficial to engineers working in industrial, commercial, aviation, military, insurance, power, communication sectors, and who provide electronic, IT equipment & services and electrical safety auditors.

Our 1-day electrical safety trainings are well appreciated in the industry. More than 200 trainings have been conducted in last 3 years, more than 5000 engineers have been trained including engineers from various state electrical inspectorates.

Subjects

120 mins - Basic electrical networks and safety in each network, CEA regulation, earthed and unearthed networks, requirements as per IS 732 and IS 3043 for automatic disconnection of supply.

90 mins - Safety in earthed and unearthed networks, Fault loop impedance, measurements, calculations, fault loop reduction, protection against shock and thermal effects, (recommendations as per IS 732 and IS 3043).

120 mins - Earthing for various application such as lightning protection, signal reference, lifts and elevators, UPS, insulation monitoring and earth fault protection in Solar PV.

90 mins - Inspection and Verification of LV System as per new IS 732 for safety.

Ignition of fire due to short circuit is a major hazard in INDIA, mainly due to non existence of basic electrical safety measures such as

- Main and supplementary protective bonding,
- Unknown condition of circuit impedances and condition of automatic disconnection of supply,
- Mis interpreted TN-S system, circulating currents, EMI,
- Continuity of supply during first fault not followed for critical and safety supplies,
- Ideas about lightning and transient currents and its effects,
- Inspection and testing as per IEC 60364-6 (IS 732),

The training focus more on the above subjects, especially a **brainstorming session on 'Why earth pits in soil are not required for earthing to provide safety in an LV system'**



S. Gopa Kumar is a Member of NBC-2016 (electrical committee), ET20 and ET 30 of Bureau of Indian Standards. He is also a member of WG-03 and 05 of SC37 A of International Electrotechnical Commission (IEC). Having more than 25 years experience in Lightning Protection and low voltage electrical safety, he has done 100's of site studies about failures of electronics in industrial system. During 2017 to 2019 he conducted 200 one day trainings for electrical engineers in India and abroad on basic electrical safety in LV system and earthing of LV and HV systems.



Y. Chiranjeevi is an electrical engineer. He has done his Master degree in Power Electronics and Drives from Anna University, Chennai. He has a total experience of 13 years in teaching field, majority of which as an Asst. Professor in Sathyabama University. He has conducted various technical seminars in advanced control systems, electrical machines & circuit analysis. He has presented papers in electrical safety workshops organised by IEEMA, BIS and CEA.

In association with



13th March 2020
Lemon tree hotel,
Manapakkam - Chennai

Timings: 9.30 am to 5.30 pm
Two tea breaks of 15 mins each & 30 mins lunch break.
Course fee – Rs.5,000 + 18% GST (include course materials)



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