Online Training: ELECTRICAL SAFETY, MEASURES AGAINST ELECTRICAL ACCIDENTS & IMPLEMENTING ELECTRICAL EMERGENCY PLANS

Registration Fee (including GST):- Rs 1000/- (Rupees One thousand only) per participant inclusive of GST

Expert Speaker (Name/ Designation) – MR. RAMNISH BEDI, DIRECTOR, KEY TO HSE AND A NATIONAL LEVEL CONSULTANT CUM TRAINER

Online Training Date: 04.12.2021

TIMINGS: 15.30 hours to 17.00 hours (One and half hours)

# **About Online Training: -**

<u>ELECTRICAL SAFETY</u>: Electrical safety is a system of organizational measures and technical means to prevent harmful and dangerous effects on workers from electric current, electric arc, electromagnetic field and static electricity.

Electrical safety is important because hazards such as arc flash and shock can result in death if a person is exposed to it.. Electrical hazards include exposed energized parts and unguarded electrical equipment which may become energized unexpectedly. Such equipment always carries warning signs like "Shock Risk". We should be always be observant of such signs and follow the safety rules

Electrical hazards continue to threaten safety of people and property in the form of shocks, burns, injury, fire and explosion. With electricity having become an indispensable part of our life, electrical risks are to be managed effectively.

#### **Electrical Hazards:**

#### Following are common electrical hazards:

- Shock: A response to electric current passing through the body.
- Arc Flash/Blast: Emits heat and intense light that causes burns.
- Fire: Occurs with faulty outlets, old wiring, cords, and switches.
- Explosions: When electricity ignites explosive material in the air

In process industries, fires due to electrical reasons are very probable, especially in industries that handle flammable chemicals. In service industries such as information technology, telecommunications, banking and other commercial establishments, business interruption losses due to electrical hazards (fire in server room, damage of expensive communication equipment, loss of data, fire in cable gallery, etc.) could be substantial.

To make sure all employees are safe before, during and after electrical work is performed, electrical workers should follow the three-step process of the Electrical Safety Model:

- recognize hazards
- evaluate risk
- control hazards

Hence it is important have an Electrical Safety Management System in place to manage electrical risk. An Electrical Safety Management System should have following things in place:

- 1. Electrical Safety Rules including training, compliance, and auditing.
- 2. Electrical Safety Instructions
- 3. Electrical Permit System
- 4. Electrical Authorisation System You should have different levels of authorisation for electrical personnel that limits what work they can do.

# **Electrical Emergency Plan:**

## **Electrical Emergency Response Plan contains provisions for the following:**

- Guidance Notes on Implementing Electrical Emergency Response Plan
- Emergency Management Policy
- General Electrical Emergency Responses
- Register for Emergency Contact Numbers
- Register for Emergency Personnel
- Medical Emergency Responses
- Fire fighting
- Electrical hazards and their control
- Emergency Training & Drills Register
- First Aid Register
- Template for Additional Emergency Response Procedures

### **EMERGENCY RESPONSE PLAN FOR AN ELECTRICAL SHOCK:**

- Do Not Touch: If someone comes in contact with electricity, do not, under any circumstances, touch them directly. If you contact that person while they are still connected to the electrical current, you will also get shocked or electrocuted. Stay calm and stay away.
- Keep Your Distance: If the cause of electrocution is a high voltage wire, stay at least 20 feet
   away from the wire. If the wire is jumping and sparking, stand even further away if
   possible.
- Turn off Power: As soon as you are aware of the contact with electricity, if you are close to the circuit breaker, turn off power to that part of the house. Do this as quickly as you can.

- Remove the Person: If it will take too long to get to the breaker, try to cut contact between the person and the electrical source using an insulated object. A wooden rod, PVC pipe or other material would work well in this case. Never, under any circumstances, use a wet or damp object. Use your best judgement to determine whether to remove the person from the shock or get to the breaker the longer the person is in contact with the shock, the more likely the shock will be fatal. Once the person is removed from immediate danger, do not attempt to move them any further.
- Call for Help: Once you have turned off the power or have otherwise removed the person from the source of the shock, immediately call emergency no. for help. If you have first aid or CPR training, administer it to the victim.

#### OTHER MAIN ELECTRICAL EMERGENCY SITUATINS ARISE DUE TO:

- Electrical Breakdown
- Exposed Wiring
- Electrical Fire

The Online Training aims at explaining Electrical safety, electrical hazards and various preventive and control measures required to deal with electrical hazards, describing details of Electrical Emergency Plan, electrical emergency procedures and discussing control measures against electrical incidents/accidents

## **Online Training Coverage: -**

- Importance of Electrical safety
- Understanding the Electrical Hazards.
- Control measures against electrical hazards
- Establishing an Electrical Safety Management System
- > Electrical Safety Instructions
- Electrical Emergency Plan
- Electrical Emergency Plan for electric shock
- > Electrical Emergency Plan for electrical breakdown
- Electrical Emergency Plan for exposed wiring
- Electrical Emergency Plan for electrical fires
- Control measures against electrical incidents/accidents
- Case study and examples

Speaker Profile (Brief One Para & Photograph): - Mr. Ramnish Bedi is Director of KEY TO HSE consultancy and training company. He has worked as Corporate Head in reputed companies like Gates India, Schneider Electrical, RICO Auto, Delphi, Federal Mogul, Nestle & Owens Corning. He is having 25

years' of working experience in Manufacturing sector like Automobile, FMCG, engineering, Chemical & Electrical Industries. He is a certified Lead Auditor for ISO 14001: 2015 & ISO:45001: 2018 and ZED Consultant certified by QCI. He is a national level consultant com trainer in the field of quality, health, safety and environment.

# Register to learn (Key Learning's' in bullet points):

- Importance of Electrical safety
- Understanding the Electrical Hazards.
- Control measures against electrical hazards
- Electrical Emergency Plan
- Electrical Emergency Plan for electric shock
- > Electrical Emergency Plan for electrical breakdown
- > Electrical Emergency Plan for exposed wiring
- Electrical Emergency Plan for electrical fires
- Control measures against electrical incidents/accidents
- > Case study and examples

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Thanks and regards

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