

## **Best Safety practice, Grounding and Isolation procedures for HV and LV System**

**Course Code: TR-B-14 Duration: 1 day**

### **Electrical isolation and Safety procedures**

- Isolation and Switching in LV supply system
- Need of Secondary Isolation & Identifying location of Secondary Isolation
- Secondary Isolation Tagout/Lockout procedure
- Hazards of Improper secondary Isolation
- Regulations relating to secondary isolations
- Safety procedures required for preventing fire in LV PVC Cable
- Permit procedures applicable for secondary isolation (entire flow to be discussed)
- Restoration after completion of work and return of permit
- Equipment used in achieving secondary isolation
- Precautions against inherent hazards

### **Safety Procedure & Isolation in HV System**

- Isolation and Switching in HV supply system
- Secondary Isolation as a part of Maintenance work in HV systems
- High Voltage Access Permit Procedure
- Safety procedures required for work on or near live equipment
- Precautions against Equipment malfunctions in achieving Secondary Isolation
- Safety Features available in Modern Switchgear for Secondary Isolation
- Safe maintenance policies, including safe working practice in switch rooms, indoor and outdoor substations

### **Proper Grounding/Equivalent Bonding practices**

- Proper Grounding and Bonding for Safety
- Applicable Standards and Recommended Practices
- Main substation earthing and bonding
- Step and touch potentials – danger to personnel
- Routine testing and certification of substation earthing
- Safe working in a substation environment
- Typical Grounding/Bonding Errors, Problems & Resolutions
- Key Considerations for Performance Grounding
- Ground Loops – Causes & Corrections
- Single Point vs. Multi-Point Grounding
- Grounding and Bonding for Lightning Protection

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