



**BANGALORE
APARTMENTS'
FEDERATION**

A CLUSTER PRESENTATION
On Electrical Safety in Apartments

3rd November, 2018



Apartment Electrical Safety Primer - OVERVIEW

- Electricity is **inherently dangerous** and needs to be [handled respectfully](#). Only authorized personnel should be allowed to handle it. Safety is to be inculcated proactively and continuously not just for compliance
- Two major electricity usage areas exist (1) Common Areas (2) Inside Apartments. We will focus here mainly on common area safety
- Common Areas have (1) Incomer (2) Distribution Panel (3) Usage points. Each of these need attention but have different safety issues
- 4 Key Proactive methods: (1) Electrical Isolation (2) Equipment Grounding (3) Circuit Interruption (4) Safe Work Practices (Avoid [Jugaad](#) at all costs)
- [Electrical Isolation](#): means keeping electricity confined to safe areas and not exposed by proper insulation, elevation and guarding of the conductors
- [Equipment Grounding](#): provides safe return path for the stray electrical current somewhere to go and keeps you from becoming part of the circuit
- [Circuit Interruption](#): means having enough devices which shut down the flow of current should something untoward happen
- [Safe work practices](#): means an ingrained attitude which minimizes risk while working with electrical equipment and measures to take in case of accident.

Apartment Electrical Safety – SUMMARY (Hazards & Protections)

Hazards

- [Ungrounded systems & tools](#)
- Inadequate wiring
- Exposed electrical parts
- Wires with bad insulation
- Overloaded circuits
- Damaged extension cords
- Damaged power tools and equipment
- [Damaged Panels with open doors](#)
- Using the wrong PPE and tools
- Overhead power lines
- Wet conditions make hazards worse
- Unqualified electrical workers

Protective Measures

- ◆ Proper [grounding](#)
- ◆ Use [GFCI's](#) (ELCB's)
- ◆ Use [fuses and circuit breakers](#)
- ◆ Guard live parts
- ◆ Proper use of flexible cords
- ◆ Use approved electrical equipment
- ◆ Close electrical panels by Competent Person
- ◆ Lockout/Tagout
- ◆ [Employee training](#)
- ◆ Ensure Competent Person on site
- ◆ Qualified person install electrical devices
- ◆ Follow all [Safety Tips](#)

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THANK YOU!

