

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत



A GOVT. AIDED UGC AUTONOMOUS & NAAC ACCREDITED INSTITUTE, AFFILIATED TO R.G.P.V BHOPAL (M.P)



STANDARD OPERATING PROCEDURES

FIRE SAFETY





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Fire prevention plan and inspection

Purpose: To produce fire safe work environment by scheduled check-up of equipment involved in fire prevention and control such as;

- 1. Evacuation: Adequacy of exits and no blockage to them
- 2. Fire alarm and detection: fire, smoke & heat detection system and evacuation alarm
- 3. Water supply: Storage, pump and distribution system
- 4. Fire Extinguishing Systems and Equipment: Sprinkler, Hose pipe, portable extinguisher etc.

Cause of fire accidents in Institute

- 1. Solid fire: Burning of wooden, stationary, vegetation, plastics and others;
- 2. **Liquid and gaseous fire:** Burning of chemicals in lab, flammable liquids, gases and paints etc;
- 3. **Electrical fire:** Short circuit and overheating of electrical appliances.

Solid or general fire (Class A fire)

- 1. Keep unnecessary people away; isolate hazard area and deny entry;
- 2. Stay upwind, out of low areas, and ventilate closed spaces before entering;
- 3. Use water, spray or foam.

Liquid and gaseous fire (Class B fire)

- 1. Keep unnecessary people away; isolate hazard area and deny entry;
- 2. Stay upwind, out of low areas, and ventilate closed spaces before entering;
- 3. Use foam, powder, CO₂.

Electrical fire (Class C fire)

- 1. Switch off the main electrical supply by using rubber gloves;
- 2. Use CO₂ type fire extinguisher;
- 3. Do not throw water on live electrical fire;
- 4. Do not attempt to disengage a person in contact with a live apparatus, which you cannot switch off immediately. Insulate yourself from the earth by standing on a rubber mat or dry board, before attempting to get him clear. Do not touch his body; push him clear with a non-insulating material.
- 5. Continue artificial respiration until recovery.

General first aid

- 1. Move victim to fresh air and call emergency medical care;
- 2. if not breathing, give artificial respiration; if breathing is difficult, give oxygen.
- 3. In case of contact with fire material, immediately flush skin or eyes with running water for at least 15 minutes.
- 4. Keep victim quiet and maintain normal body temperature.
- 5. Effects may be delayed; keep victim under observation.

CALL EMERGENCY NUMBER



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Use of different type of extinguisher

