



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

OBJECTIVES OF SAFETY AND SECURITY MEASURES





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Safety and security measures in electrical safety primarily aim to protect individuals, property, and equipment from electrical hazards. Here are the key objectives:

Preventing Electrical Accidents: The foremost objective is to prevent accidents such as electrical shocks, burns, fires, and explosions that can result from unsafe electrical practices or faulty equipment.

Protecting Human Life: Ensuring the safety of individuals working with or around electrical equipment is crucial. Measures like proper grounding, insulation, and protective gear help minimize the risk of electric shock or electrocution.



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Safeguarding Property: Electrical faults can lead to fires that damage property. Safety measures such as circuit protection devices (like circuit breakers and fuses) help prevent electrical overloads and short circuits that could cause fires.

•**Ensuring Compliance with Regulations:** Adhering to electrical safety standards and regulations (such as NFPA 70E in the United States) ensures that installations and practices meet minimum safety requirements.

•**Minimizing Downtime and Financial Loss:** By preventing electrical failures and accidents, businesses can avoid downtime due to equipment damage or personnel injury, thereby minimizing financial losses associated with repairs and operational disruptions.



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- **Promoting Safety Culture:** Educating individuals about electrical safety practices and ensuring that proper procedures are followed helps create a culture of safety within organizations and communities
- **Environmental Protection:** Electrical incidents can also impact the environment through fires or hazardous materials released during accidents. Effective safety measures help mitigate these risks.
- **Emergency Preparedness:** Having protocols in place for responding to electrical emergencies, such as power outages, arc flashes, or equipment failures, ensures quick and effective responses to minimize harm and restore operations safely.



THANK YOU