



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)



Principles of Safety Management



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- Safety management in electrical safety is crucial to prevent accidents, injuries, and damage to equipment. Here are some fundamental principles of safety management in the context of electrical safety:
- **Risk Assessment:**
 - Identify and assess potential electrical hazards in the workplace.
 - Evaluate the likelihood and severity of possible incidents.
 - Prioritize risks based on their level of danger.
- **Compliance with Standards and Regulations:**
 - Adhere to relevant electrical safety standards and regulations, such as those set by the Occupational Safety and Health Administration (OSHA) or the International Electrotechnical Commission (IEC).



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- **Training and Competence:**
 - Ensure that personnel working with electrical equipment are adequately trained and competent in their tasks.
 - Provide ongoing training to keep employees informed about the latest safety procedures and technologies.
- **Safe Work Practices:**
 - Develop and implement safe work practices, such as lockout/tagout procedures, to control and mitigate electrical hazards.
 - Establish clear guidelines for working on or near electrical equipment.
- **Equipment Maintenance:**
 - Regularly inspect and maintain electrical equipment to ensure it is in good working condition.
 - Implement a preventive maintenance program to address potential issues before they become hazards.



- **Emergency Response Planning:**

- Develop and communicate emergency response plans in case of electrical incidents.
- Provide training on emergency procedures, including first aid and evacuation plans.

- **Personal Protective Equipment (PPE):**

- Ensure that personnel have access to and properly use appropriate PPE, such as insulated gloves, safety glasses, and flame-resistant clothing.
- Regularly inspect and replace damaged or worn-out PPE.

- **Isolation of Energy Sources:**

- Implement effective lockout/tagout procedures to isolate electrical energy sources during maintenance and repair activities.

- Verify that equipment is de-energized before starting work.



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- **Communication and Signage:**
 - Clearly communicate electrical hazards and safety procedures to all personnel.
 - Use signage to indicate the presence of electrical hazards and the necessary safety precautions.
- **Incident Investigation:**
 - Investigate and analyze all electrical incidents or near misses.
 - Identify root causes and implement corrective actions to prevent similar incidents in the future.
- **Continuous Improvement:**
 - Regularly review and update safety procedures based on lessons learned and changes in technology or regulations.
 - Encourage a culture of continuous improvement in electrical safety practices.
- By integrating these principles into the safety management system, organizations can create a safer work environment and reduce the risk of electrical accidents. Regular training, effective communication, and a commitment to continuous improvement are essential components of a successful electrical safety management program.



THANK YOU