



SNS COLLEGE OF ENGINEERING

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DEPARTMENT OF MANAGEMENT STUDIES

**SUBJECT NAME & CODE : 23BAT316 - INDUSTRIAL RELATIONS AND LABOUR
WELFARE**

YEAR/ SEMESTER : II MBA / III SEMSTER

UNIT 4 : INDUSTRIAL SAFETY

Topic : Causes of Accidents



Definition



Industrial safety is formally defined as the set of procedures, regulations, and preventive measures aimed at ensuring the protection and welfare of workers in industries. This field encompasses hazard identification, risk assessment, regulatory compliance, training, and emergency response, all designed to safeguard employees and prevent workplace incidents.



Industrial Safety



Industrial safety refers to the protection of workers, facilities, and assets in industrial settings from various hazards that can lead to injury, health issues, or damage. It involves implementing safety protocols, using protective equipment, and establishing practices to minimize accidents and create a safe working environment. The goal of industrial safety is to prevent accidents, mitigate risks, and ensure compliance with safety regulations, promoting a safe and healthy work environment



Essential Reasons for Industrial Safety



1. Prevents workplace injuries and promotes health and safety.
2. Helps businesses adhere to safety laws and regulations.
3. Lowers expenses from accidents, medical claims, and legal issues.
4. Safe environments improve worker morale and efficiency.
5. Prevents industrial spills and environmental hazards.
6. Provides tools for managing unexpected incidents.
7. Reflects a company's commitment to employee welfare.



Causes of Accidents



1. Human Error
2. Unsafe Work Practices
3. Mechanical Failures
4. Poor Housekeeping
5. Inadequate Training
6. Environmental Hazards
7. Fatigue and Overwork
8. Chemical and Fire Hazards
9. Improper Material Handling
10. Lack of Emergency Preparedness



Examples



1. A factory worker mistakenly operates a machine without engaging the safety lock, leading to an injury.
2. Not wearing protective goggles while cutting materials causes an eye injury from flying debris.
3. A conveyor belt breaks down unexpectedly, causing nearby workers to stumble and fall.
4. Tools left on the floor lead to a tripping hazard, causing a worker to fall and injure their arm.
5. An untrained forklift operator misjudges a turn, leading to product damage and a minor injury.



Examples



1. Poor ventilation in a paint workshop causes fumes to accumulate, leading to respiratory issues for workers.
2. A worker operating heavy machinery after a long shift loses concentration, resulting in a minor collision.
3. Improper storage of flammable chemicals in a lab leads to a small fire from a spark.
4. An employee lifting heavy boxes without assistance injures their back, leading to time off work.
5. During a small fire, the absence of a clear evacuation plan leads to confusion, delaying workers' exit from the building.



RECAP

QUESTIONS???

THANK YOU