

REPORT OF EXPERT TALK ON INDUSTRIAL SAFETY ENGINEERING

Workplace of today in Engineering manufacturing and construction presents situations which are complexed by dangerous operations and use of hazardous materials. Safety is a very important aspect for any industry as an accident-free work environment boosts the morale of the team members working in any hazardous situations. Recognizing these facts, industries involving various hazards and risks industries prepare their own safety policy, safety manual and have a separate department/section for safety so as to create proper awareness and provide the know-how-about the safety. Adherence to the useful information, rules, and mandatory requirements governing the safety and guidelines will help prevent occupational injuries and accidents which constitute an unavoidable and needless waste of human and material resources.

Industrial safety refers to the management of all operations and events within an industry in order to protect its employees and assets by minimizing hazards, risks, accidents, and near misses. Industrial safety is overseen by federal, state, and local laws and regulations. The Occupational Safety and Health Association (OSHA) is the primary regulatory body in the United States dedicated to ensuring industrial safety. Industrial safety covers a number of issues and topics affecting safety of personnel and the integrity of equipment in a particular industry.

Based on the new course (MCN401-Industrial Safety Engineering) introduced by KTU for 7th Semester students, an EXPERT TALK ON INDUSTRIAL SAFETY ENGINEERING has been organized by TKM Institute of Technology, Kollam.

Details of the Expert Talk

- Resource Person: **Mr. Bhanu K.**
Lead Auditor: ISO 9001, ISO 14001, ISO 22000, ISO 45001 & SA 8000
Sr. HSE Engineer
(Empanelled by M/s Bureau Veritas India Private Limited)
- Date : 04/12/2023
- Time : 2.00-4.00pm
- Venue: Seminar Hall (Administrative Block)
- Participants :7th semester students of all programmes and the faculty members

The following topics are generally discussed:

- ❖ Introduction to Industrial Safety
- ❖ Safety & Productivity
- ❖ Unsafe Act and Unsafe Conditions

- ❖ Safety Organization & Safety policy
- ❖ Hazards in Workplace
- ❖ Personal Protection in Work Environment & Types of PPE
- ❖ Work Permit System.

At the end of the expert talk, an MCQ test has been conducted for the students. Feedback of the session is also collected from the participants.

Images





 **GPS Map Camera**



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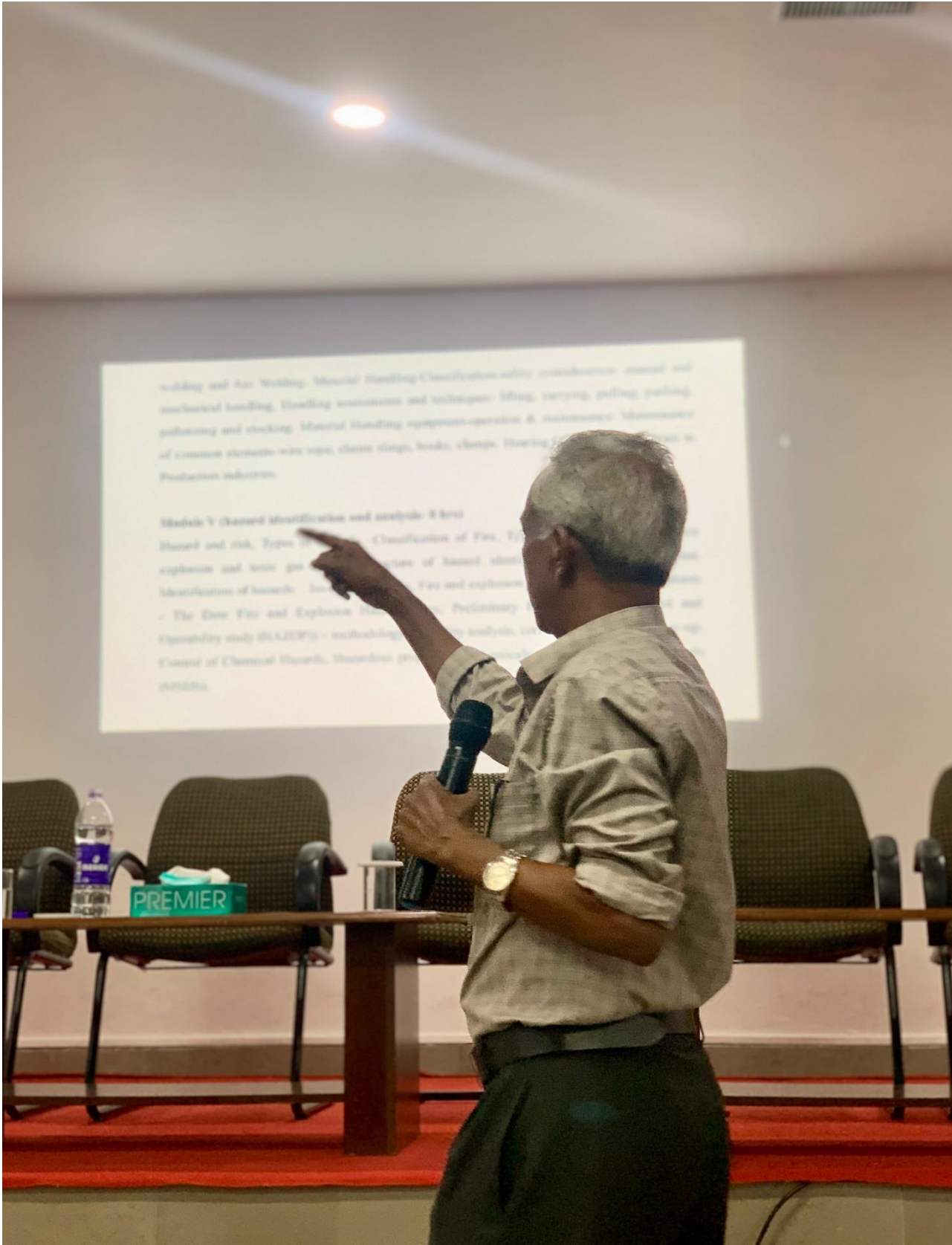
welding and Arc Welding. Material Handling-Classification-safety consi
mechanical handling. Handling assessments and techniques- lifting, carry
palletizing and stocking. Material Handling equipment-operation & mai
of common elements-wire rope, chains slings, hooks, clamps. Hearing Co
Production industries.

Module V (hazard identification and analysis- 8 hrs)
ard and risk, Types of hazards -Classification of Fire, Types of
sion and toxic gas release, Structure of hazard identification
ification of hazards: Inventory analysis, Fire and explosion hazar
he Dow Fire and Explosion Hazard Index, Preliminary hazar
erability study (HAZOP)) - methodology, criticality analysis, corre
of Chemical hazards, Hazardous properties of chemicals, M

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welding and Arc Welding, Manual Handling-Classification-safety considerations manual and mechanical handling, Handling accessories and techniques: lifting, carrying, pulling, pushing, pulling and stacking, Manual Handling equipment-operation & maintenance, Maintenance of common elements-wire rope, chain slings, hooks, clamps, Hoisting & Lifting in Production industries.

Module V (Hazard Identification and analysis-4 hrs)

Hazard and risk, Types of Hazards, Classification of Fire, Types of fire, Fire and explosion and their general characteristics of hazard identification, Identification of hazards, Identification of fire and explosion hazards, Preliminary Hazard and Operability study (PHA/PO) - methodology, Hazard analysis, HAZOP, Control of Chemical Hazards, Hazardous process, HAZOP, HAZOP.