

Unit - I Legislative measures in industrial safety

- i. Factories Act, 1948, Workman's Compensation Act, 1948, Employees State Insurance Act, 1948.
- ii. Mines Act, Air (Prevention and Control) Pollution Act, 1981,
- iii. Water (Prevention and Control) Pollution Act, 1974, Boiler Vessels Act. Child Labour and Women Employee Act.
- iv. The factories rules, History, Provisions under the factories Act and rules made there under with amendments, Functions of safety management.

Unit – II Occupational Safety, Health and Environment Management

- i. Bureau of Indian standards on safety and health 14489 - 1998 and 15001 - 2000
- ii. OSHA, Process Safety Management (PSM) as per OSHA, PSM principles,
- iii. OHSAS – 18001, EPA Standards,
- iv. Performance measurements to determine effectiveness of PSM

Unit – III Safety Management

- i. Organising for safety, Health and Environment.
- ii. Organisation : Structure, Function and responsibilities
- iii. Safety Committee : Structure and function
- iv. The competent person in relation to safety legislation - duties and responsibilities. Competence Building Technique (CBT)
- v. Concept for training, application of computer, multimedia, communication. Relevance of WTO regarding safety, Health and environment.
- vi. Employee participation in safety - Role of Trade union in safety, health and environment. Safety promotion and safety awards, safety, competitions, audio visual publication.

Unit IV Directing safety

- i. Definition, process, principles and techniques. Leadership - role, function and attribution of a leader.
- ii. Essential rules in communication with employees with conducting training, team building and group dynamics.

Reference Books

1. The Factories Act with amendments 1987, Govt. of India Publications DGFASLI, Mumbai
2. Grimaldi and Simonds, Safety Management, AITBS Publishers, New Delhi (2001)
3. Industrial Safety – National Safety Council of India