

OCCUPATIONAL HEALTH AND SAFETY (3-0-0)

Module -I

Occupational Health and Safety concern and problems. National and international protocols and concerns, policies and legislation. Ergonomics; Stress-strain concept; Assessment of human capabilities and limitations; Human Physiological Work Capacity and its evaluation.

Module -II

Sources of work stress (a) intrinsic to the jobs, (b) work environmental stressors like heat & Humidity , noise & vibration, dust, illumination, etc.; Methodologies for evaluating different types of stresses. Human Error and Accidents: Different Classification of Human Error, Theories of Accident Causation, Human Error Audit. Accident analysis.

Module -III

Education and Training in Occupational Hygiene. Need to evolve an integrated Occupational Health and Safety Programme for specific industries. Occupational Health & Safety Management Systems (OHSAS - 18001): Legal and other Requirements ; Overview; Planning, hazard identification and risk assessment; Occupation Health and Safety Policy; OH & SMS Documentation; Emergency Preparedness and Response.

Books and Reference

1. Dan Petersen, "Techniques of Safety Management", McGraw-Hill Company, Tokyo, 1981.
2. Relevant India Acts and Rules, Government of India.
3. Relevant Indian Standards and Specifications, BIS, New Delhi.
4. Blake R.B., "Industrial Safety" Prentice Hall, Inc., New Jersey, 1973.
5. Safety and Good House Keeping", N.P.C., New Delhi, 1985.
6. Accident Prevention Manual for Industrial Operations", N.S.C.Chicago, 1982.