

BES – E – 503 Occupational Health & Safety

Unit - I

Occupational Health Hazards, Promoting Safety, Safety and Health training, Stress and Safety. Importance of Industrial safety, the role of safety department, Safety committee and Function Organising for safety, Health and Environment.

Unit – II

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

Unit III

Safety protocol: used in Grinding, Shearing, Bending, Boring, mining, Shaping Safe use of hand tools, non-sparking tools, portable power tools. Guarding of different types of machinery including special precautions for paper, rubber and printing machinery, wood working.

Unit - IV

Operation, inspection and maintenance of industrial trucks, loose gears conveyors, Safe working load for mechanical material handling equipments. Employee participation in safety - Role of Trade union in safety, health and environment. Safety promotion and safety awards, safety, competitions, audio visual publication.

Unit – V

Factories Act, 1948, Workman's Compensation Act, 1943, Employees State Insurance Act, 1948. Mines and minerals (regulation and development) Act 1957. The factories rules, History, Provisions under the factories Act and rules made there under with amendments, Functions of safety management.