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CC5003 INDUSTRIAL SAFETY MANAGEMENT L

DETAILED SYLLABUS

UNIT I SAFETY MANAGEMENT

Evaluation of modern safety concepts - Safety management functions - safety organization, safety department - safety committee, safety audit - performance measurements and motivation- employee participation in safety - safety and productivity.

UNIT II OPERATIONAL SAFETY

Hot metal Operation - Boiler, pressure vessels - heat treatment shop - gas furnace operation -electroplating-hot bending pipes - Safety in welding and cutting. Cold-metal Operation - Safety in Machine shop - Cold bending and chamfering of pipes - metal cutting - shot blasting, grinding, painting - power press and other machines.

UNIT III SAFETY MEASURES

Layout design and material handling - Use of electricity - Management of toxic gases and chemicals - Industrial fires and prevention - Road safety - highway and urban safety - Safety of sewage disposal and cleaning - Control of environmental pollution - Managing emergencies in Industries - planning, security and risk assessments, on-site and off site. Control of major industrial hazards.

UNIT IV ACCIDENT PREVENTION

Human side of safety - personal protective equipment - Causes and cost of accidents. Accident prevention programmes - Specific hazard control strategies - HAZOP - Training and development of employees - First Aid- Fire fighting devices - Accident reporting, investigation.

UNIT V SAFETY, HEALTH, WELFARE & LAWS

Safety and health standards - Industrial hygiene - occupational diseases prevention – Welfare facilities - History of legislations related to Safety-pressure vessel act-Indian boiler act – The environmental protection act - Electricity act - Explosive act.

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REFERENCES

- 1. Industrial safety and the law by P.M.C. Nair Publisher's, Trivandrum.
- 2. John V. Grimaldi and Rollin H. Simonds, "Safety Management", All India Travellers bookseller, New Delhi-1989.
- 3. Krishnan N.V., "Safety in Industry", Jaico Publisher House, 1996
- 4. Managing emergencies in industries, Loss Prevention of India Ltd., Proceedings, 1999.
- 5. Occupational Safety Manual BHEL.
- 6. Safety security and risk management by U.K. Singh & J.M. Dewan, A.P.H. Publishing company, New Delhi, 1996.
- 7. Singh, U.K. and Dewan, J.M., "Safety, Security and risk management", APH Publishing Company, New Delhi, 1996.

OBJECTIVES

- To achieve an understanding of principles of safety management.
- To enable the students to learn about various functions and activities of safety department.
- To enable students to conduct safety audit and write audit reports effectively in auditing situations.
- To have knowledge about sources of information for safety promotion and training.
- To familiarize students with evaluation of safety performance.