

25PCIS01 PRINCIPLES OF SAFETY MANAGEMENT (3-1-0)

Module - I (04 Hours)

CONCEPTS

Evolution of modern safety concept- Safety policy - Safety Organization - line and staff functions for safety- Safety Committee- budgeting for safety.

Module - II (07 Hours)

Incident Recall Technique (IRT), disaster control, Job Safety Analysis (JSA), safety survey, safety inspection, safety sampling, Safety Audit. Pareto Analysis.

Module - III (11 Hours)

ACCIDENT INVESTIGATION AND REPORTING

Concept of an accident, reportable and non-reportable accidents, Accident Frequency Rate, Accident Severity Rate, unsafe act and condition – principles of accident prevention, Supervisory role- Role of safety committee – Accident causation models - Cost of accident. Overall accident investigation process - Response to accidents, India reporting requirement, Planning document, Planning matrix, Investigators Kit, functions of investigator, four types of evidences, Records of accidents, accident reports-Class exercise with case study. Cause and Effect Analysis.

Module - IV (09 Hours)

SAFETY PERFORMANCE MONITORING

permanent total disabilities, permanent partial disabilities, temporary total disabilities Calculation of accident indices, frequency rate, severity rate, frequency severity incidence, incident rate, accident rate, safety “t” score, safety activity rate – problems.

Module - V (09 Hours)

SAFETY EDUCATION AND TRAINING

Importance of training-identification of training needs-training methods – programme, seminars, conferences, competitions – method of promoting safe practice - motivation communication - role of government agencies and private consulting agencies in safety training – creating awareness, awards, celebrations, safety posters, safety displays, safety pledge, safety incentive scheme, safety campaign – Domestic Safety and Training.

Books

1. Krishnan N.V. “Safety Management in Industry” Jaico Publishing House, Bombay, 1997.
2. Heinrich H.W. “Industrial Accident Prevention” McGraw-Hill Company, New York, 1980.

References

1. Accident Prevention Manual for Industrial Operations”, N.S.C.Chicago, 1982
2. John Ridley, “Safety at Work”, Butterworth & Co., London, 1983.