

AMEV18 OCCUPATIONAL HAZARDS AND INDUSTRIAL SAFETY

UNIT-1 INDUSTRIAL ATMOSPHERIC CONTAMINANTS AND HEALTH HAZARDS

- 1.1 Industrial atmospheric contaminants- types.
- 1.2 Industrial Health Hazards- effects of pressure, humidity, temperature- radiation, light, noise, electricity - accidents, occupational diseases, infections.

UNIT-2 INDUSTRIAL TOXICOLOGY AND INDUSTRIAL HYGIENE SURVEY

- 2.1 Modes of entry of toxic substances into the human body - long term and short term effects- industrial toxicology.
- 2.2 Threshold Limit Values, kinds of exposure standards, pollutant concentrations, Industrial Hygiene Survey- Diagnosis- Remedial measures
- 2.3 Occupational Health and Safety Management System (OHSMS) - BS OSHAS 18001.

UNIT-3 INDUSTRIAL VENTILATION

- 3.1 Industrial Ventilation- general principles of air flow
- 3.2 General dilution ventilation- comfort ventilation.
- 3.3 Local exhaust ventilation
- 3.4 Principles of hood and duct design - duct system design - fans.

UNIT-4 CONTROL MEASURES

- 4.1 Air cleaning Devices - relative efficiencies - Testing of local exhaust ventilation systems.
- 4.2 Industrial Noise Control - general engineering principles of control standards

UNIT-5 INDUSTRIAL ILLUMINATION AND INDUSTRIAL PLANT SANITATION

- 5.1 Industrial illumination- glare- types & levels of illumination. Industrial plant sanitation
- 5.2 Housekeeping - worker facilities.

Reference Books:

1. Industrial Ventilation Manual, American Conference of Government Industrial Hygienists, 1—3