

AMCH22 INDUSTRIAL SAFETY

UNIT-1 GENERAL SAFETY MANAGEMENT

- 1.1 Need to organize for safety, Accidents
- 1.2 Accidents- some definitions and codes, Accident investigation
- 1.3 How accident prevention is accomplished
- 1.4 Hazards identification and assessment techniques
- 1.5 Hazards Identification and assessment techniques (points to remember)
- 1.6 Ways and means to promote safety and safety culture

UNIT-2 ENVIRONMENTAL SAFETY MANAGEMENT

- 2.1 Water pollution, Air pollution control,
- 2.2 Pollution control norms prescribed by M.P.C.B, Mumbai,
- 2.3 Soil and land pollution, Thermal pollution,
- 2.4 Permissible exposure levels of continuous noise, Noise pollution

UNIT-3 MECHANICAL SAFETY MANAGEMENT

- 3.1 Hand Tools and portable power tools
- 3.2 Heat Stress and its effects on man and control measures
- 3.3 Safety requirements for forging, Hazards in foundry and forging
- 3.4 Hazards and their control in Iron and Steel Industry, Safety at rolling mills
- 3.5 Procedure for work at height above roof top of shops
- 3.6 Procedure for work at height within the shop, Lifting tackles- chains and fittings
- 3.7 Crane operation safety, On the job safety, Grinding wheel safety, Permit to work systems
- 3.8 How to avoid slips, trips and falls, Basic types of unsafe acts, Unsafe act and unsafe condition
- 3.9 Safety in material handling and storage, Safety in material storage
- 3.10 Metal working machines, Welding, Back fire and flashback
- 3.11 Safety in Soldering, plating, polishing, buffing and spray painting, Hot working of metals

UNIT-4 SAFETY IN FERROUS FORGING PLANTS

- 4.1 Main processors in forging plants, Main processors in forging industry
- 4.2 Safety in power presses Electrical Safety Management
- 4.3 Static electricity and electricity in mention, How electricity causes Injury
- 4.4 Know basic first aid in case of electrical emergency, Some don'ts with electricity,
- 4.5 Prevent electrical fires, Three main causes of fire in industry,
- 4.6 Electrical wiring and handling of electrical equipment, Electrical hazards

UNIT-5 CHEMICAL SAFETY MANAGEMENT

- 5.1 Hazards in storage, Handling and use of chemicals, Chemical and environmental hazards
- 5.2 Structural and buildings safety,
- 5.3 Handling and manipulation of corrosive substances, Corrosion failures and prevention,
- 5.4 Handling and storage of chemicals, Occupational Diseases, Fire prevention,
- 5.5 Industrial housekeeping – fire prevention, Waste management and disposal

- 5.6 Hazardous water management and disposal
- 5.7 Principles of ventilation, Home safety

UNIT-6 PERSONAL PROTECTION

- 6.1 Personal protective equipment, On the job eye protection,
- 6.2 How to protect your skin on the job, Stay out of harm's Way,
- 6.3 Respiratory Protective, Equipment's,
- 6.4 Oxygen – how it supports life, First Aid.

UNIT-7 SAFETY RULES AND REGULATIONS

Reference Book:

1. Industrial Safety and Environment Paperback – 1 January 2015 by A.K. Gupta (Author)

