

SYLLABUS

PLUMBING

1. BASIC PLUMBING

2. HYDRAULIC PRINCIPLES

PASCAL'S LAW
VOLUME/VELOCITY
BACKFLOW
BACKFLOW RESPONSIBILITIES
TYPE OF BACKFLOW PREVENTERS

4. PATHOGENS

HIPPOCRATES
BLACK PLAGUE
VIRAL DISEASES
WATERBORNE DISEASES

5. PLUMBING FITTING

PLASTIC PIPE

6. PLUMBING REPAIRS

TOILETS
SHOWERS
NOISES

7. DRAIN & VENTS

8. WATER DISTRIBUTION

ROTARY VALVES
TYPE OF PIPES
DISTRIBUTION FITTINGS
WATER MAIN INSTALLATION

FIRE FIGHTING

1. INDUSTRIAL SAFETY

SAFETY & ITS TYPES
SAFETY MEASUREMENTS
SAFETY ORGANIZATION
TYPES OF INDUSTRIAL SAFETY SYSTEMS

2. HAZARDS

MODES OF HAZARDS
TYPES OF HAZARDS
PRIORITIZATION OF HAZARDS

3. ACCIDENTS

TYPES OF ACCIDENT
CAUSES OF ACCIDENT

4. EMERGENCY PREPARENESS PLAN

PTW
PPE'S TYPES AND ITS USES

5. BASICS OF FIRE FIGHTING

BASICS OF FIRE FIGHTING
FIRE FIGHTING STANDARDS
FIRE FIGHTING PIPE MATERIALS
FIRE LEGENDS
EXTINGUISHING MEDIA

6. FIRE SUPPRESSION OR PREVENTION SYSTEM

HOUSE KEEPING
ELECTRICAL
SMOKING
MACHINERY
HOT WORK
HAZARDS
ALARM

7. TYPES OF FIRE AND FIRE EXTINGUISHING

SITE SELECTION OF EXTINGUISHERS
CHOOSING THE EXTINGUISHERS
TYPES OF EXTINGUISHERS

8. FIRE FIGHTING ZONE

ACTIVE AND PASSIVE FIRE PROTECTION ZONE
FIRE FIGHTERS MANAGEMENT , WIND GUIDELINE

9. ELECTRICAL SAFETY

ELV ,SELV, PELV, FELV
STAND ALONE POWER SYSTEM
MINIMUM ELECTRICAL CLEARANCE
POSSIBLE SAFETY DISTANCE TO EMF SOURCE

10. EXPLANATIONS OF NFPA CODES AND DESIGN WITH LAYOUT

OVERVIEW OF NFPA 10
OVERVIEW OF NFPA 13 D
OVERVIEW OF NFPA 13 R
OVERVIEW OF NFPA 14
OVERVIEW OF NFPA 15
OVERVIEW OF NFPA 20

11. FIRE FIGHTING DESIGN CRITERIA

A. SPRINKLER DESIGN

BASIC HYDRAULIC FORMULA
TYPES OF SPRINKLER AND TYPES OF SPRINKLER HEAD
SPRINKLER COVERAGE AREA CALCULATION
FOAM MAKING EQUIPMENT

B. EXTINGUISHERS

GAS EXTINGUISHERS
WATER EXTINGUISHERS
FOAM EXTINGUISHERS
POWDER EXTINGUISHERS

12. FIRE DETECTION AND ALARM SYSTEM

TYPES OF DETECTORS
FIRE DOORS
FIRE DAMPERS
MEANS OF ESCAPE
SHIP DETAILS

13. FIRE MAN OUTFIT PROTECTION

14. OSHA AND NEFA STANDARDS

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