

Divisional/ District Fire Officer

1. Fire Ground Hydraulics and water management
 - 1.1 Nozzle discharge (pressure and Flow)
 - 1.2 Friction losses
 - 1.3 Application of Bernoulli's Principle
 - 1.4 Pumps and Its Operations
2. Special Fire Appliance
 - 2.1 HAZMAT Van
 - 2.2 DCP tender
 - 2.3 Foam Tender
 - 2.4 Hydraulic Aerial platform/ Turn table ladder
 - 2.5 Breathing Apparatus Van
 - 2.6 Air Crash Tender
 - 2.7 Emergency Tender
 - 2.8 Multifunctional Rescue Crane tender
3. Special Rescue Tools
 - 3.1 Hydraulic tools
 - 3.2 Pneumatic tools
 - 3.3 Mechanical Tools
 - 3.4 Underwater Apparatus
4. Breathing Apparatus
 - 4.1 Types of Breathing Apparatus
 - 4.2 Calculation Of working time
 - 4.3 Entrap Procedure
 - 4.4 Practical use of Breathing Apparatus
5. Positive Pressure Ventilation
 - 5.1 Deciding volume and requirements of Ventilations
6. Fire Service Administration
 - 6.1 Record Keeping
 - 6.2 Tendering Process
 - 6.3 Format of Notice for violation
7. Plan Reading
 - 7.1 Identifying Symbols of various fire system installation etc.
 - 7.2 Travel Distance
8. Urban Search And Rescue
 - 8.1 Mitigation and Planning
 - 8.2 Communication
 - 8.3 All types of Search Cameras
 - 8.4 Rope Rescue equipments
 - 8.5 First Aid and Resuscitation
9. HAZMAT – Chemical accidents and Containment
 - 9.1 Types of Typical Chemicals used in transportation

- 9.2 Chemical Sealing Equipment Types
- 9.3 Basic Chemistry
- 9.4 Methods of Dilution and Decontamination
- 10. Fire Ground Communication
 - 10.1 Information to control room
 - 10.2 Demand of various vehicles as required
 - 10.3 Water Supply and Management
- 11. Tactical Drills and Commands
 - 11.1 Word of Commands
 - 11.2 Different type of Drills(hose, pump, ladder, water tender etc)
- 12. NBC Part-IV Fire Protection System
 - 12.1 Classification of Buildings
 - 12.2 Active and Passive Fire Protection system in Various Occupancies
 - 12.3 Special/ Mixed Occupancies