

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

Station Fire Officer

1. Chemistry Of Fire
 - 1.1 Triangle of Fire
 - 1.2 Classification Of Fire
 - 1.3 Chemical Chain Reaction
2. Hydraulics
 - 2.1 Nozzle discharge (pressure and Flow)
 - 2.2 Friction Loss
 - 2.3 Volume of different Shapes and sizes of containers
3. Pump Operations and testing
 - 3.1 Classification Of Pumps
 - 3.2 Advantages and Types of Centrifugal Pumps
 - 3.3 Deep lift pumps
 - 3.4 Care and Maintenance of Fire pumps
4. Small Gears
 - 4.1 All types of Saw
 - 4.2 Petrol and Electrical cutting tools
 - 4.3 Lighting equipment
 - 4.4 Types of Breaking tools
5. Foam And Foam Making Equipment
 - 5.1 Types of Foam
 - 5.2 Foam Making Branches
 - 5.3 Foam Making Generators
 - 5.4 Expansion ratios of different foam making equipment
6. Practical Fireman ship
 - 6.1 Force Entry
 - 6.2 Ventilating fire spot
 - 6.3 Rescue techniques
7. Fire Service Appliances
 - 7.1 DCP tender
 - 7.2 Foam Tender
 - 7.3 Hydraulic Aerial platform/ Turn table ladder
 - 7.4 Breathing Apparatus Van
 - 7.5 Emergency Tender
8. Fix Fire Fighting Installations
 - 8.1 Sprinkler system
 - 8.2 Hydrant system
 - 8.3 Pump House
 - 8.4 Fixed Monitors
 - 8.5 Smoke detection system
9. Fire Extinguishers
 - 9.1 Classification of Fire Extinguishers

- 9.2 Care and maintenance of Fire Extinguishers
- 9.3 Working pressure, Standard and hydro pressure test
- 10. Detection System
 - 10.1 Fire Heat and Smoke
- 11. Special service Call
 - 11.1 Sever Rescue
 - 11.2 Gas and Chemical Leakage
 - 11.3 Building Collapse
- 12. Ladders
 - 12.1 All types of Ladder
 - 12.2 Ladder Testing
 - 12.3 Care and Maintenance
- 13. Breathing Apparatus and Airline equipments
 - 13.1 Care and Maintenance
 - 13.2 Testing
 - 13.3 Uses
- 14. Fire Entry Procedure
- 15. Fire Ground Communication
 - 15.1 Information to control room.
 - 15.2 Demand of various vehicles as required
 - 15.3 Water Supply and Management
- 16. Tactical Drills and Commands
 - 16.1 Word of Commands
 - 16.2 Different type of Drills(hose, pump, ladder, water tender etc)
- 17. Entrapment Procedure
- 18. Knots and Lines
 - 18.1 All types of rescue notes

Leading Fireman

1. Hose and Hose Fitting
 - 1.1 Classification
 - 1.2 Care and Maintenance
2. Ladders
 - 2.1 All types of Ladder
 - 2.2 Ladder Testing
 - 2.3 Care and Maintenance
3. Fire Extinguishers
 - a. Classification of Fire Extinguishers
 - b. Care and maintenance of Fire Extinguishers
 - c. Working pressure, Standard and hydro pressure test
4. Breathing Apparatus
 - a. Care and Maintenance
 - b. Testing
 - c. Uses
5. Ward of Command for Drill and Fire Ground Operation
 - 5.1 Information to control room
 - 5.2 Demand of various vehicles as required
 - 5.3 Water Supply and Management
 - 5.4 Explanation of All type of Drill command
6. Knots and Lines
 - 6.1 All types of rescue notes
7. Care and Maintenance of Fire equipments
 - 7.1 All types of Pumps
 - 7.2 All types of Cutting Tools
8. Small Gear and Operation
 - 8.1 All types of Saw
 - 8.2 Petrol and Electrical cutting tools
 - 8.3 Lighting equipment
 - 8.4 Types of Breaking tools
9. Discipline
- 10 Watch Room Procedure
 - 10.1 All register maintenance
 - 10.2 Fire Call / Rescue call and Fire Station monitoring

11. Foam And Foam Making Equipment

11.1 Types of Foam

11.2 Foam Making Branches

11.3 Foam Making Generators

Driver Cum Pump Operator

1. Operation of Auxiliary equipments
2. Fire Pump Operation
3. IC Engine and Chassis Maintenance.
4. Automatic and Manual Transmission PTO operation

Fireman Cum Driver

1. Hose and Hose Fitting
 - 1.1 Classification
 - 1.2 Care and Maintenance
2. Ladders
 - 2.4 All types of Ladder
 - 2.5 Ladder Testing
 - 2.6 Care and Maintenance
3. Fire Extinguishers operation
 - 3.2 Classification of Fire Extinguishers
 - 3.3 Care and maintenance of Fire Extinguishers
 - 3.4 Working pressure, Standard and hydro pressure test
4. Breathing Apparatus
 - 4.2 Care and Maintenance
 - 4.3 Testing
 - 4.4 Uses
5. Knots and Lines
 - 5.1 All types of rescue knots
6. Care and Maintenance of Fire equipments
 - 6.1 All types of Pumps
 - 6.2 All types of Cutting Tools
7. Small Gear and Operation
 - 7.1 All types of Saw
 - 7.2 Petrol and Electrical cutting tools
 - 7.3 Lighting equipment
 - 7.4 Types of Breaking tools
8. Discipline
9. Watch Room Procedure
 - 9.1 All register maintenance
 - 9.2 Fire Call / Rescue call and Fire Station monitoring
10. Foam And Foam Making Equipment
 10. Types of Foam
 - 10.2 Foam Making Branches
 - 10.3 Foam Making Generators
11. Hydrant

- 11.1 Classification
- 11.2 Care and Maintenance
- 12. Practical Fireman ship
 - 18.1 Force Entry
 - 18.2 Ventilating fire spot
 - 18.3 Rescue techniques
- 13. Salvage
 - 13.1 salvage at fire ground
- 14. Fire Drill
 - 14.1 All type of Practical Drill
- 15. Fire Pump Operation – Portable / Inbuilt and Water source