

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