SYLLABUS FOR COMPUTER BASED TEST 2023-24
FIRE & SAFETY POSITIONS


2. **Fire Fighting Chemicals**: Water, Foam, DCP, Clean agents etc.

3. **Fire Detection & Control**: Fire Detection principles, classification of detectors, Fire Extinction methods, water based, chemical based, clean agent systems, operation and maintenance of detection / alarm systems

4. **Fire Protection - I (Special hazards: Industrial Fires)**: Fire Suppression Systems, Fire Water systems, sprinkler systems, Fire resistant construction, Emergency exits

5. **Fire Protection - II (Special hazards: Flammable Liquid Storages)**: Plant siting considerations, Ignition source control, Hazards of Bulk storages, Fire Protection for Flammable storages, Passive barriers

6. **Fire Services Hydraulics**: Sprinkler system demand, hydraulics of sprinkler systems etc.

7. **Fire Safety Laws**: Doctrine of Sovereign immunity; Factories Act, Explosives act, Petroleum act etc.

8. **Fire Codes and Standards**: Standards for Fire Equipment, Personal Safety equipment etc.

9. **Paramedics / First Aid**: Management of Burns, Fractures, wounds, trauma handling etc.

10. **Inspection & Testing of Fire Fighting Systems**: Fire Sprinkler testing, OISD/NFPA standards for testing & Inspection, Fire Pumps testing etc.

11. **Safety Management**: Goals & Need of Safety, Accident Prevention, Accident Investigation, Personal Protection equipment etc.

12. **Safety in Construction**: Safety in welding & gas cutting, excavations, work at height, electrical, material handling, lifting/hoisting etc.
13. **Safety Engineering**: Accident trends in Industry, Safety Indices, Frequency & Severity Rates, Job Safety Analysis, work permit administration etc.

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**NOTE**: The syllabus/topics mentioned are indicative in nature. Candidates are expected to possess significant knowledge/proficiency pertaining to the relevant subjects and their qualifying degree.