

# ■ DCD Exam Preparation – Fire Extinguishers (Chapter 4)

## Basics & Definitions

- 1 Q1. In UAE Fire Code, what does 'Shall' mean? Answer: Mandatory requirement.
- 2 Q2. In UAE Fire Code, what does 'Should' mean? Answer: Recommended (not mandatory).
- 3 Q3. What does 'Listed' mean? Answer: Approved and registered with Civil Defence Material Department.
- 4 Q4. Difference between high-pressure and low-pressure cylinders? Answer: High-pressure > 500 psi (CO<sub>2</sub>, nitrogen). Low-pressure ≤ 500 psi (water/foam with nitrogen).
- 5 Q5. What is a rechargeable extinguisher? Answer: Can be serviced, refilled, hydro-tested, and reused.
- 6 Q6. What is a non-rechargeable extinguisher? Answer: Disposable, cannot be serviced, must be replaced after use.
- 7 Q7. What is a self-expellant extinguisher? Answer: Uses agent's own vapor pressure to expel itself.
- 8 Q8. What is a cartridge-operated extinguisher? Answer: Expellant gas is stored separately in a cartridge.

## Classes of Fire

- 1 Q9. Which class of fire involves wood, cloth, and paper? Answer: Class A.
- 2 Q10. Which class involves flammable liquids like petrol and solvents? Answer: Class B.
- 3 Q11. Which class involves energized electrical equipment? Answer: Class C.
- 4 Q12. Which class involves combustible metals like magnesium and titanium? Answer: Class D.
- 5 Q13. Which class involves cooking oils and fats? Answer: Class K.

## Extinguisher Types & Applications

- 1 Q14. Which extinguisher is used for Class A fires? Answer: Water or Foam.
- 2 Q15. Which extinguisher is best for IT rooms? Answer: CO<sub>2</sub> or Clean Agent.
- 3 Q16. Which extinguisher is used for kitchens? Answer: Wet Chemical (Class K).
- 4 Q17. Which extinguisher type is prohibited in UAE? Answer: Soda Acid, Chemical Foam (non-film forming), Halon 1211 & 1301, Vaporizing liquid, Cartridge water types.

## Installation & Placement

- 1 Q18. Maximum travel distance for Class A extinguisher? Answer: 30 m.
- 2 Q19. Maximum travel distance for Class B extinguisher? Answer: 15 m.
- 3 Q20. Maximum travel distance for Class C extinguisher? Answer: 9 m.

- 4 Q21. Maximum travel distance for Class D extinguisher? Answer: 15 m.
- 5 Q22. Installation height requirements? Answer: Top  $\leq$  1.5 m above floor, bottom  $\geq$  30 cm above floor.

## Selection Factors

- 1 Q23. What factors must be considered in extinguisher selection? Answer: Weight, corrosion, agent compatibility, wind/draft, availability of trained personnel.
- 2 Q24. Why is extinguisher gross weight important? Answer: User must be able to handle it.
- 3 Q25. Why consider corrosion resistance? Answer: Extinguishers may be exposed to harsh atmospheres.
- 4 Q26. Why consider wind/draft conditions? Answer: They affect extinguisher discharge range and effectiveness.

## Safety Precautions

- 1 Q27. Why is CO $\blacksquare$  dangerous in confined spaces? Answer: It can displace oxygen and cause suffocation.
- 2 Q28. What issue arises with dry chemical extinguishers in small rooms? Answer: Reduced visibility for several minutes.
- 3 Q29. Why avoid spraying too close on grease fires? Answer: Can splash burning oil and spread fire.
- 4 Q30. What precautions are needed in confined spaces? Answer: Warning labels, breathing apparatus, ventilation, remote application.

## Operation & Use

- 1 Q31. What does PASS stand for? Answer: Pull, Aim, Squeeze, Sweep.
- 2 Q32. What steps are involved in operating an extinguisher? Answer: Recognition, transport, actuation, agent application.
- 3 Q33. What should be considered when transporting extinguishers? Answer: Weight, stairs, obstacles, user's physical ability.

## Inspection & Maintenance

- 1 Q34. How often must extinguishers be inspected? Answer: Daily/monthly checks, annual servicing, hydrostatic testing if damaged.
- 2 Q35. Who is responsible for extinguisher maintenance? Answer: Building owner/facility management.

## Civil Defence & Standards

- 1 Q36. Who submits design and layout of extinguishers to Civil Defence? Answer: Main consultant.

- 2 Q37. Who can install extinguishers in UAE? Answer: Only Civil Defence–approved contractors.
- 3 Q38. Which standard applies to portable extinguishers? Answer: NFPA 10.
- 4 Q39. Which UL standard applies to CO<sub>2</sub> extinguishers? Answer: UL 154.
- 5 Q40. Which EN standard applies to portable extinguishers? Answer: EN 3.