

Training Course

FIRE PROTECTION SYSTEM INSPECTION & TESTING (NFPA 25)

Training Duration

5 days

Training Venue and Dates

Ref. No. HSE045	Fire Protection System Inspection & Testing (NFPA 25)	5	17 - 21 Nov. 2025	6,500	London, U.K.
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- 6,500 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

INTRODUCTION

This course offers a clear, practical guide to NFPA 25, the standard for inspecting, testing, and maintaining water-based fire protection systems. Learn how to evaluate key components like sprinklers, standpipes, fire pumps, and valves to ensure they function properly and meet compliance requirements.

Ideal for fire safety professionals and facility managers, this course equips you to:

- Apply NFPA 25 inspection and testing procedures
- Identify and report system deficiencies
- Support ongoing fire protection system reliability and code compliance

TRAINING OBJECTIVES

By the end of this course, participants will be able to:

- Understand the structure and application of NFPA 25.
- Perform routine inspections, testing, and maintenance of fire protection systems.
- Identify common deficiencies, impairments, and violations.
- Apply best practices for documenting, reporting, and managing system readiness.
- Conduct hands-on evaluations for key fire protection components, including:

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- Sprinkler systems
- Standpipe systems
- Fire pumps
- Fire hydrants
- Fire alarms and detection systems
- Special suppression systems (foam, clean agents, etc.)

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of the multiple-choice type will be made available on a daily basis to examine the effectiveness of delivering the course.

All presentations are made in excellent colorful power point. Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

WHO SHOULD ATTEND

This course is ideal for:

- Fire safety engineers and inspectors
- Facility and plant maintenance teams
- HSE professionals and safety officers
- Fire wardens and emergency response team members
- Insurance auditors and risk assessors
- FM Global, KOC, or civil defense compliance professionals

OUTLINE

Day 1: Introduction & NFPA 25 Overview

- Overview of Codes and Standards (NFPA 25, NFPA 13, NFPA 72, local codes)

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- Purpose and scope of NFPA 25
- Roles and responsibilities of inspectors
- Understanding types of water-based fire protection systems
- Documentation requirements and impairment handling

Workshop:

- Review of sample inspection and testing reports
- NFPA 25 compliance checklist introduction

Day 2: Sprinkler Systems – Inspection, Testing, and Maintenance

- Types of sprinkler systems (wet, dry, pre-action, deluge)
- Inspection schedules and key visual inspection points
- Flow and pressure testing
- Internal pipe inspections
- Fire department connections (FDC) testing

Hands-On Activity:

- Identify sprinkler heads and perform visual inspection
- Conduct valve tagging and record-keeping

Day 3: Standpipe Systems, Fire Pumps, and Hydrants

- Inspection and testing of standpipe systems (Class I, II, III)
- Fire pumps: Weekly/monthly run tests, pressure readings, churn vs flow
- Hydrant testing: flow testing, lubrication, valve operation

Hands-On Activity: www.definettraining.com

- Live demonstration of fire pump testing and hydrant operation
- Pressure measurement and flow rate calculations

Day 4: Fire Alarm & Detection Systems

- Overview of NFPA 72 and integration with NFPA 25
- Smoke detectors, heat detectors, manual call points
- Audible/visual devices and panel testing

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- Battery backup and power supply inspection

Practical Exercise:

- Simulated alarm test with control panel observation
- Detector spacing and installation verification

Day 5: Special Suppression Systems & Final Assessment

- Clean agent systems (FM200, Novec 1230)
- Foam systems – types and maintenance
- Dry chemical and CO₂ systems inspection
- Common deficiencies and how to correct them
- Impairment handling procedures and communication
- Final group review and practical assessment

NOTE: Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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