



External Training Course

Fire Engineering Course Related to NFPA 15

From 29 Jan. To 02 Feb. 2024
From 26 Feb. To 01 Mar. 2024
From 18 Mar. To 22 Mar. 2024

**Aqua Freedom Hotel
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Course Introduction:

Welcome to the course on NFPA 15: Standard for Water Spray Fixed Systems for Fire Protection. This course is designed to provide you with a comprehensive understanding of NFPA 15, its requirements, and its application in fire protection systems. Whether you are a fire protection engineer, designer, installer, or inspector, this course will equip you with the knowledge and skills necessary to effectively implement NFPA 15 in your projects.

Course Objectives:

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

- Understand the purpose and scope of NFPA 15: You will gain a clear understanding of the objectives and scope of NFPA 15, including its role in fire protection, its applicability to different types of occupancies, and the importance of compliance with the standard.
- Identify the key requirements of NFPA 15: You will become familiar with the essential provisions of NFPA 15, including the criteria for system design, installation, operation, and maintenance. You will learn about the various components of water spray fixed systems and the specific requirements for their design and installation.
- Apply NFPA 15 in system design: You will learn how to apply the requirements of NFPA 15 in the design of water spray fixed systems. This includes understanding the factors to consider in system layout, hydraulic calculations, nozzle selection, water supply, and system integration with other fire protection systems.
- Understand system installation and testing: You will gain knowledge about the proper installation practices for water spray fixed systems, including the requirements for materials, piping, fittings, and supports. You will also learn about the testing and inspection procedures necessary to ensure the system's functionality and compliance with NFPA 15.

- Comply with maintenance and inspection requirements: You will learn about the periodic maintenance and inspection requirements outlined in NFPA 15. This includes understanding the importance of regular inspections, testing, and maintenance activities to ensure the continued effectiveness of water spray fixed systems.
- Interpret and apply code provisions: You will develop the skills to interpret and apply the code provisions of NFPA 15 in real-world scenarios. Through case studies and practical examples, you will enhance your ability to navigate the standard and make informed decisions in fire protection system design, installation, and maintenance.

By the end of this course, you will be well-equipped to apply the provisions of NFPA 15 effectively, ensuring the design, installation, and maintenance of water spray fixed systems that provide reliable fire protection in various occupancies and environments.

Course Outline:

Day 1: Introduction to NFPA 15 and System Design Considerations

- Introduction to NFPA 15: Purpose, scope, and key concepts.
- Overview of water spray fixed systems and their applications.
- Factors to consider in system design: Occupancy types, hazard classification, and design objectives.
- Water supply requirements and sources for water spray systems.
- Hydraulic calculations for system design.
- System layout and nozzle selection considerations.

Day 2: System Components and Installation Requirements

- Components of a water spray fixed system: Nozzles, piping, pumps, valves, and fittings.
- Material requirements and considerations for system components.
- Proper installation practices for water spray systems.
- Support and anchoring requirements for piping and equipment.
- Integration of water spray systems with other fire protection systems.
- Case studies and practical examples of system installations.

Day 3: Operation, Testing, and Maintenance

- Operating requirements and procedures for water spray fixed systems.
- Testing and inspection methods for system functionality.
- Periodic maintenance requirements and best practices.
- Troubleshooting common issues in water spray systems.
- Record-keeping and documentation for compliance with NFPA 15.
- Case studies and interactive exercises on system operation, testing, and maintenance.

Day 4: Code Interpretation and Compliance

- Detailed review and interpretation of key provisions of NFPA 15.
- Application of NFPA 15 requirements in different occupancy types.
- Integration with other relevant codes and standards.
- Compliance strategies and documentation for code officials and inspectors.
- Case studies and group discussions on code interpretation and compliance.

Day 5: Advanced Topics and Case Studies

- Special considerations for high-hazard occupancies: Power plants, chemical facilities, etc.
- Fire protection challenges in unique environments: Marine, offshore, etc.
- Alternative design approaches and performance-based design considerations.
- Emerging trends and technologies in water spray fixed systems.
- Comprehensive case studies and group projects to apply the knowledge gained throughout the course.
- Final assessment and Q&A session.

