MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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FIRE ALARM SYSTEMS

"Design, Install, Operate, and Maintain Reliable Fire Detection and Alarm Systems"

Schedule

Venue (In-house)	Fees
At Your Organization Premises	Ask For The Quotation

Introduction

Fire alarm systems are critical for ensuring the safety of people, property, and assets in industrial, commercial, and residential facilities. A well-designed and properly maintained fire alarm system can detect fires at an early stage, trigger timely evacuation, and minimize loss or damage.

This course provides comprehensive knowledge of fire detection and alarm system design, operation, installation, and maintenance in compliance with international standards such as NFPA and BS. Participants will gain practical skills in system components, wiring configurations, control panels, and troubleshooting common issues to ensure reliable system performance.

Objectives

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

- Understand the principles of fire detection and alarm systems
- Identify key components and their functions
- Interpret fire alarm system design standards and codes
- Develop system layouts and wiring configurations
- Perform testing, inspection, and maintenance procedures
- Troubleshoot faults and ensure system reliability
- Integrate fire alarm systems with other safety systems such as sprinklers and suppression systems
- Apply best practices for system documentation and commissioning

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Why Attend

A properly designed and maintained fire alarm system saves lives and assets. This course equips participants with the technical knowledge and practical expertise needed to design, test, and maintain these systems effectively. It is ideal for professionals involved in safety engineering, facility maintenance, and building management who aim to enhance fire protection measures in their organizations.

Target Audience

This course is suitable for:

- Fire and Safety Engineers
- Electrical and Instrumentation Engineers
- Facility and Maintenance Technicians
- Building Services and MEP Engineers
- Safety Officers and HSE Managers
- System Designers and Installers
- Anyone responsible for fire protection systems and compliance

Individual Benefits

- Gain in-depth understanding of modern fire alarm technologies
- Develop design and maintenance competence in line with international standards
- Improve ability to identify and resolve system faults efficiently
- Enhance confidence in implementing fire protection strategies
- Strengthen career prospects in safety and facility management fields

Organizational Benefits

- Ensure compliance with fire safety codes and regulations
- Reduce risk of fire incidents and associated losses
- Improve building safety and emergency response readiness
- Extend the reliability and lifespan of fire detection systems
- Support a strong culture of safety and preventive maintenance

Instructional Methodology

The course combines theoretical knowledge with hands-on learning through:

- Instructor-led presentations and discussions
- Demonstrations of fire alarm system components
- System design and layout exercises
- Practical troubleshooting and maintenance workshops
- Case studies on real-world fire protection systems

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Course Outline

Module 1: Fundamentals of Fire Detection and Alarm Systems

Module 2: System Components – Detectors, Alarms, and Control Panels

Module 3: Fire Alarm Codes and Standards (NFPA, BS, IEC)

Module 4: System Design and Layout Principles

Module 5: Wiring Methods and Circuit Configurations

Module 6: Installation, Testing, and Commissioning Procedures

Module 7: Integration with Sprinkler and Suppression Systems

Module 8: Maintenance and Troubleshooting Techniques

Module 9: Emergency Response and System Documentation

Module 10: Case Studies and Practical Exercises

Certification

Upon successful completion, participants will receive a Certificate in Fire Alarm Systems, demonstrating their knowledge and capability in the design, operation, and maintenance of reliable fire detection and alarm systems.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**

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