

## FIREPROOFING SYSTEMS AND MAINTENANCE STRATEGIES

*“Enhancing passive fire protection through effective system design, inspection, and maintenance.”*

### Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

### Introduction

This comprehensive training provides in-depth knowledge of industrial fireproofing systems used in oil & gas, petrochemical, energy, and infrastructure sectors. It focuses on types of passive fire protection (PFP), materials selection, application techniques, degradation mechanisms, inspection methods, and long-term maintenance strategies. Participants will learn how to ensure that fireproofing systems are properly designed, applied, and maintained to meet performance requirements during fire incidents, especially hydrocarbon fires.

### Objectives

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

- Understand fireproofing principles and passive fire protection system requirements
- Identify and compare different fireproofing materials and application methods
- Assess degradation, mechanical damage, and environmental effects on fireproofing
- Implement best practices in inspection, testing, and quality assurance
- Design maintenance strategies to ensure long-term fireproofing effectiveness

## Why Attend

- Gain technical expertise on critical fire safety infrastructure
- Prevent costly failures in fireproofing systems in high-risk industries
- Meet compliance with international standards and fire safety codes
- Learn from experienced fireproofing engineers and safety professionals
- Improve plant integrity and reduce fire-related risks

## Target Audience

This course is designed for:

- Fire protection engineers and safety officers
- Maintenance and inspection personnel
- Asset integrity and corrosion engineers
- Facility engineers and project managers
- Contractors involved in PFP installation and repair
- Compliance and QA/QC professionals

## Individual Benefits

- Gain hands-on knowledge of application and maintenance techniques
- Improve your capability in identifying risks and non-conformances
- Boost your career opportunities in safety, inspection, and asset integrity
- Get certified in fireproofing systems knowledge applicable globally

## Organizational Benefits

- Improve fire safety readiness and reduce asset vulnerability
- Minimize downtime and repair costs due to failed PFP systems
- Enhance compliance with NFPA, API, ISO, and local fire codes
- Train technical staff on inspection and maintenance best practices

## Instructional Methodology

This training uses:

- Technical lectures and standard references (API 2218, ISO 22899, etc.)
- Case studies on fireproofing failures and successes
- Group activities and condition assessment simulations
- Hands-on workshops on application and inspection tools
- Multimedia demonstrations of fireproofing in extreme conditions

## Course Outline

### Detailed 5-Day Course Outline (Customizable)

**Training Hours:** 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

#### Day 1: Fundamentals of Fireproofing Systems

- Module 1: Introduction to Passive Fire Protection (07:30 – 09:30)
- Module 2: Fire Behavior and PFP Objectives (09:45 – 11:15)
- Module 3: Standards & Codes (NFPA, API, ISO) (11:30 – 01:00)
- Module 4: Types of Fire Scenarios (Jet fire, pool fire, etc.) (02:00 – 03:30)

#### Day 2: Fireproofing Materials and Application

- Module 1: Cementitious, Epoxy Intumescent, and Lightweight Systems (07:30 – 09:30)
- Module 2: Application Methods and Best Practices (09:45 – 11:15)
- Module 3: Surface Preparation, Thickness Control, and Curing (11:30 – 01:00)
- Module 4: Workshop – Application Flaws and Troubleshooting (02:00 – 03:30)

#### Day 3: Inspection and Degradation Assessment

- Module 1: Fireproofing Inspection Techniques (07:30 – 09:30)
- Module 2: Common Damage Mechanisms (09:45 – 11:15)
- Module 3: NDT Methods, Visual Inspections & Thickness Gauging (11:30 – 01:00)
- Module 4: Field Assessment Exercises & QA/QC Checklists (02:00 – 03:30)

#### Day 4: Repair, Maintenance & Documentation

- Module 1: Identifying Repair Needs and Defect Categories (07:30 – 09:30)
- Module 2: Maintenance Planning and Risk-Based Prioritization (09:45 – 11:15)
- Module 3: Documentation and Compliance Records (11:30 – 01:00)
- Module 4: Case Study – PFP Failure and Corrective Action Plan (02:00 – 03:30)

#### Day 5: Integrated Strategy and Final Evaluation

- Module 1: Integration with Fire Safety Systems and Asset Integrity (07:30 – 09:30)
- Module 2: Final Project – Developing a Fireproofing Maintenance Plan (09:45 – 11:15)
- Module 3: Group Presentations & Peer Review (11:30 – 01:00)
- Module 4: Certification Exam & Course Wrap-Up (02:00 – 03:30)

## Certification

Participants will receive a Certificate of Completion in Fireproofing Systems and Maintenance Strategies, validating their knowledge in fireproofing technologies, inspection, and asset protection. This certification meets industry-recognized standards and is suitable for regulatory compliance and contractor qualifications.

## Why Choose MAWA Events

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