



ENGINEERING STAFF COLLEGE OF INDIA



Autonomous Organ of The Institution of Engineers (India)
(IMS [ISO 9001:2015, ISO 14001:2015, ISO 50001:2018, ISO 45001:2018],
ISO/IEC 17025:2017 Certified, AICTE & CEA Recognized Institution)
Old Bombay Road, Gachibowli, Hyderabad – 500 032. Telangana, India

Management and Technology Division

Hybrid (Offline & Online) Continuing Professional Development Programme on

Firefighting Systems, Safety and Emergency Response

Dates: 22 – 25 June 2026

at ESCI Campus, Hyderabad

INTRODUCTION

Fire hazards pose a significant risk to life, property, and critical infrastructure, especially within establishments that serve the public and manage essential services. With increasing urbanization, industrial activities, and complex building systems, the need for a robust understanding of fire safety, firefighting systems, and emergency response mechanisms has become more critical than ever.

This 4-day training programme on **Firefighting Systems, Safety and Emergency Response** is designed to equip officials and employees with comprehensive knowledge and practical skills to prevent fire incidents, respond effectively during emergencies, and ensure compliance with national safety standards such as the National Building Code of India and guidelines issued by the Bureau of Indian Standards. The programme integrates theoretical concepts with hands-on training, real-life case studies, and mock drills to enhance preparedness and build confidence among participants.

By fostering a culture of safety and proactive risk management, this programme aims to strengthen institutional resilience and enable participants to safeguard lives, assets, and public infrastructure efficiently and responsibly.

OBJECTIVES

The primary objectives are

- To provide a clear understanding of the **fundamentals of fire science**, fire behavior, and common causes of fire incidents in establishments.
- To develop the ability to **identify fire hazards and conduct risk assessments** in workplaces and public infrastructure.
- To familiarize participants with various **firefighting systems and equipment**, including their selection, operation, and maintenance.
- To impart practical skills in the **safe and effective use of fire extinguishers, hydrants, and sprinkler systems**.
- To enhance knowledge of **fire safety regulations and standards** such as the National Building Code of India and relevant guidelines issued by the Bureau of Indian Standards.

COURSE COVERAGE

The following course content will be detailed during the training programme:

- **Fundamentals of Fire & Safety**
 - Types & Classes of Fire (A, B, C, D, K)
 - Causes of Fire
 - Fire Prevention Techniques
 - Fire Safety Regulations in India
 - Analysis of major fire accidents in India
- **Firefighting Systems & Equipment**

- Types of Firefighting Systems
- Fire Extinguishers – Selection & Use
- Fixed Fire Protection Systems
- **Emergency Response & Disaster Management**
 - Emergency Preparedness
 - Disaster Management Framework
 - First Aid & Rescue Techniques
- **Safety Management & Risk Control**
 - Safety Management Systems
 - Personal Protective Equipment (PPE)
 - Risk Assessment & Control
- **Mock Drills**

METHODOLOGY

Methodology of the Programme includes class room Sessions with Lecture/discussion with audio visual aid, bench marked practices if any, video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences, etc. All the sessions will be interactive demanding active participation from all the members. Case Method of Instructions will be the main method of knowledge facilitation. Technical Field and Social visits are integral part of the training methodology.

TARGET PARTICIPANTS

Officials and staff from different departments such as: Public Works, Municipal Administration, Power Utilities, Transport, Industrial Units and Hospitals & Educational Institutions. Engineers, Officers, and Managers from any organization.

BENEFITS TO THE PARTICIPANTS

After completion, participants will be able to:

- Understand fire dynamics and safety principles
- Identify and mitigate fire hazards
- Operate firefighting equipment effectively
- Respond confidently during emergencies
- Implement safety systems in their departments

EXPERT FACULTY

The faculty consists of experts from industry, research establishments and academia besides that from ESCI.

PROGRAMME DIRECTOR

Dr. US JYOTHI, FIE
Sr. Faculty & Head
Management & Technology Division,
Engineering Staff College of India
Old Bombay Road, Gachibowli, Hyderabad - 500032
Mob: 99592 24748 / Ph: 040-66304111/4112/4105
Email: mtmkt@escihyd.org/mt@escihyd.org

PROGRAMME COORDINATOR

Dr. KATTI. BHARATH, M.Tech, Ph.D (NIT-Warangal)
Faculty & Course coordinator
Management & Technology Division,
Engineering Staff College of India
Mob: 7799114919 / Ph: 040-66304105
Email: mtmkt@escihyd.org/mt@escihyd.org

PROGRAMME DATES & TIMINGS

Dates: 22 – 25 June 2026

Timings: On the first day Registration will commence at **09:00 Hrs**. On all other days the programme timings will be from **09:45-17:15 Hrs** with breaks in between for tea and lunch.

COURSE FEE: Rs. 22,000/- (Rupees Twenty Two Thousand only) per Participant + GST@18% Extra. Fee includes, course material, course kit, twin-sharing/single AC accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme.

Online: WebEx platform

Rs. 14,000 /- (Rupees Fourteen Thousand only) per participant + GST@18% Extra.

Programme fee is to be paid in in favor of “**THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA**” in the form of demand draft payable at Hyderabad. Alternatively, the payment may be made by Electronic Fund Transfer (EFT) to ESCI - **SB A/c No.0432104000039631 with The IDBI Bank Ltd., Gachibowli Branch, Plot No. 2-53/2, JNIBF, IIIT Junction, Gachibowli, Hyderabad-500032 by RTG’s/ NIFT / IFSC Code No: IBKL0000432**. While using EFT method of payment, please ensure to communicate us your company name, our Invoice reference and programme title.

CERTIFICATION

A Certificate of participation will be awarded to each participant on conclusion of the programme.

GENERAL INSTRUCTIONS

- ESCI encourages participants to present case studies from their respective organizations.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation).
- Well-developed Information Centre and Internet facilities are available to the participants free of cost.