

## Faculty

Director, IISWBM : Shri Dipankar Das Gupta  
Head, ADFSM : Dr. Sarbani Mitra  
Adviser, ADFSM : Prof. Barendra Mohan Sen

### Core Faculty

Prof (Dr) K M Agrawal  
Prof (Dr) B K Choudhury  
Mrs Sona Banerjee  
Mr Arindam Dutta

### Guest Faculty

Mr D P Biswas  
Mr Sekhar Dey  
Mr A Banerjee  
Mr S K Alley  
Mr Swapan Banerjee  
Mr Sujay Banerjee  
Mr Amal Bhattacharjee  
Mr Indranil Das  
Dr Priyanka Roy  
Mrs Koyeli Dutt  
Dr S Mukherjee  
Ms Neepa Banerjee

petroleum refineries, petrochemicals and plastic, fertilizers, textiles, LPG and LNG handling and bottling plants, chemicals and other plants, aircraft industry, where there are risks of fire.

- Fire departments of local government bodies i.e. Government Fire Services, insurance companies, architectural and building design, project management, etc.

Action has been taken to amend the West Bengal Fire Service Act for including the statutory provision of appointment of a qualified fire manager in addition to providing stringent fire protection and detection systems in any high risk establishment to look after the fire & life safety matters of the occupants.

## Selection Procedure

The applicants for the admission to the Fire Safety Management Course short-listed on the basis of academic performance would be required to appear for Group Discussion and Personal Interview. Total strength of the students to be admitted is 60 (Sixty) only for Day and Evening courses.

## Examination Regulations

The Council conducts the examinations according to the academic calendar. The date of commencement of examination is notified by the WBSCTVESD.

Examination and Registration Fees : to be paid as specified by WBSCTVESD.

## Benefits from this Course

On completion of this course, students could look forward to a career in any of the following sectors:

- Large manufacturing organizations particularly those like

## One Year Day Course for Freshers

### Eligibility Criteria

Graduate or Diploma/Degree in Engineering/  
Technology / Science or its equivalent examination.

### Timing

Thursday, Friday, Saturday and Sunday (10:30 am - 5:00 pm)

### Course Fees

1<sup>st</sup> Semester : Rs. 40,000/- (Session fees)  
Library Caution Deposit : Rs. 2,500/- (Refundable)  
Security Deposit : Rs. 2,500/- (Refundable)  
2<sup>nd</sup> Semester : Rs. 40,000/- (Session fees)

[The Institute reserves the right to revise / change the fees as and when necessary]

## Application Form & Brochure - HOW TO APPLY

- Option I: Online application through Debit/Credit Card.
- Option II: Online application through State Bank of India (Power Jyoti A/c 32495656710)
- Option III: Collect the Admission Brochure and Application Form from the reception counter of IISWBM against cash payment of Rs. 300/-.

## 18 Month Evening Course for Sponsored/ Employed Candidates

### Eligibility Criteria

Graduate or Diploma/Degree in Engineering/  
Technology / Science or its equivalent examination.  
Candidates shall preferably be employed at the time of admission.

### Timing

Thursday and Friday (6:00 - 8:00 pm) and Saturday and Sunday (10:30 am - 5:00 pm)

### Course Fees

1<sup>st</sup> Semester : Rs. 30,000/- (Session fees)  
Library Caution Deposit : Rs. 2,500/- (Refundable)  
Security Deposit : Rs. 2,500/- (Refundable)  
2<sup>nd</sup> Semester : Rs. 30,000/- (Session fees)  
3<sup>rd</sup> Semester : Rs. 30,000/- (Session fees)

## Application Form & Brochure - HOW TO APPLY

- Option I: Online application through Debit/Credit Card.
- Option II: Online application through State Bank of India (Power Jyoti A/c 32495656710)
- Option III: Collect the Admission Brochure and Application Form from the reception counter of IISWBM against cash payment of Rs. 300/-.

**For Any Query, Mail at [sarbani\\_iiswbm@yahoo.co.in](mailto:sarbani_iiswbm@yahoo.co.in) or Write WA Message at 9874646208.**

**The last date for issue and submission of the  
completed Admission Form is August 16, 2022**

For Details Contact: Registrar

Indian Institute of Social Welfare and Business Management  
Management House, College Square (West), Kolkata 700 073

Phone : (033) 4023 7474, 2219 1683, 2241 8694/8695/5792/3756, 9874646208, Fax : (033) 2241 3975  
E-mail: [admissions@iiswbm.edu](mailto:admissions@iiswbm.edu) / [sarbani\\_iiswbm@yahoo.co.in](mailto:sarbani_iiswbm@yahoo.co.in), Visit us at: [www.iiswbm.edu](http://www.iiswbm.edu)

## ADVANCED DIPLOMA IN

# FIRE SAFETY MANAGEMENT

*Affiliated to*

WEST BENGAL STATE COUNCIL OF TECHNICAL & VOCATIONAL EDUCATION  
AND SKILL DEVELOPMENT (WBSCTVESD)

**2022-2023**



**IISWBM**  
Our graduates nurture and build companies





## Foreword

Indian Institute of Social Welfare and Business Management (IISWBM), the first Management Institute in India and one of the Premier B-Schools in the country has introduced an Advanced Diploma in *Fire Safety Management*. The Diploma Certificate will be issued by the West Bengal State Council of Technical & Vocational Education and Skill Development (WBSCTVESD).

The main objective of this programme is to give increased emphasis on specific skills development at the post graduate level with potential for employment, as the West Bengal Fire Service Act is being amended to mandatorily appoint a qualified fire manager in any high risk establishment.

The course has been designed by a team of renowned professionals and academia drawn from West Bengal Fire and Emergency Services, Government of West Bengal and IISWBM with the objective to create a new career opportunity for the youth that has the potential to change their lives for the better within a very short span.

The programme will be offered in two formats. The first format, offered to freshers, will be for 12 months divided into two semesters of 6 months each. The second format, offered to working professionals, will be for 18 months divided into 3 semesters of 6 months each.

Shri Dipankar Das Gupta  
Director, IISWBM

## Indian Institute of Social Welfare and Business Management (IISWBM)

Indian Institute of Social Welfare and Business Management (IISWBM) was constituted on 25<sup>th</sup> April, 1953 by a resolution passed by the Senate of the University of Calcutta. The meeting of the Senate was presided over by Mr Justice Rama Prasad Mookerjee. This was the culmination of the joint initiative taken by the University of Calcutta, the Government of West Bengal, the Government of India and the captains of Industry to set up for the first time a management education institute in India, a concept alien to many in the educational fraternity at that time. The Institute has successfully reached its Diamond Jubilee Year, signifying 60 years of eventful journey in management education in India since that day. IISWBM, the first management institute of India, was thus established by Dr. B C Roy, the then Chief Minister of West Bengal as its Founder-President and Prof. D. K. Sanyal as the first Director. The Government of India, Department of Posts in recognition of 50 years of glorious existence of the first B-school in the country, released a Commemorative Postage Stamp on IISWBM on 25<sup>th</sup> April, 2004 in New Delhi. The Institute takes pride in its faculty that consistently ranks highest amongst premier B-schools in terms of their intellectual capital. IISWBM is known for introducing and successfully conducting socially relevant and innovative

management programme. IISWBM has always had a ragging-free environment.

### Infrastructure

IISWBM provides the faculty and students with the state-of-the-art, technologically advanced, modern, air-conditioned and large campus in the heart of the city.

### IT Facilities

The Computer Centre provides state-of-the-art resources to facilitate the academic and administrative activities of the Institute. It provides high-end academic support to the students, lease-line internet connection through wireless and wired LAN. Students have access to continuous free Wi-Fi facility at the Institute.

### Central Library

The Central Library has more than 52,000 text books in all functional areas of Management, current International and National journals and more than 100 periodicals on relevant topics. It also has electronic books (from Cambridge & Springer), electronic journals (Ebsco & J-Gate) and online Company Databases (viz., PROWESS, CRISIL and SAS) for the benefit of the users. The services are fully computerized. The library remains open from 10:00 am to 8:00 pm on all working days.

### Hostel

The Institute provides safe, separate, well-furnished and comfortable hostel facility to both male and female outstation students subject to availability of seats.

### Gymnasium

The Institute also maintains a well-equipped gym with all modern equipments and a trainer to guide and encourage students to work out daily at the Institute.

### Canteen

The Institute has a canteen facility offering a variety of healthy cuisine at reasonable and affordable rates. It is essentially a students' zone with free Wi-Fi facility.



## The Advanced Diploma in Fire Safety Management

Fire Safety Management has assumed great importance in the context of growing urbanization of the State. High risk buildings, Commercial complexes, IT sector, Multiplex, Private medical institutes and Nursing homes, Industrial establishments in the large as well as MSME sectors must have modern fire safety system and monitoring practice on a regular basis. It is not only important to have in place the necessary amount of fire safety equipments in a commercial complex, but it is also equally important for some members of that fraternity to actually undergo some sort of fire safety training. Basic training and the use of equipments can be done for employees, who would need a guide to let them know how to operate something as basic as a fire extinguisher. For security personnel, who are the ones responsible for the safety of all the individuals in the commercial complex, an in-depth training can be provided. This may include training on how to use the numerous instruments which the complex is equipped with. The training will also include helping them to deal with the fear and panic that is associated with a fire. They will be tutored on how to best gauge exits, and quick ways to help individuals leave the building. These evacuation procedures can come in handy during emergency situations when there might not be any lights or visibility might be greatly affected. Having all the safety equipments and necessary accessories for a fire hazard is of course important. But, if there is no one available who knows how to use these safety devices during situations that require their usage, then there is no use of having advanced, state-of-the-art equipment around. Proper fire safety training can prepare the right individuals, and save lives when it is most required. So there is dire need of specialized training and necessary skill development. Imparting this fire safety training can prove to be life-saving during practical situations.

### The Course Objectives

This course has two key objectives:

- To train manpower to explore the various possibilities of preventing fire & disasters and taking necessary precautions against fire and to lessen the disaster and health hazards and provide right counsel for ensuring total safety and health of the society at large.
- To give increased emphasis on specific skills development at the post graduate level with potential for employment.

### The Course Content

This course will expose students to the following major clusters of topics:

- Principles of fire science: *Physics & chemistry of fire, classification & spread of fire, elements of combustion, sources of ignition, methods of extinguishment, fire load, fire resistance, etc.*
- Different fire fighting agents with their methods of application: *Water, foam, carbon dioxide, dry chemical powder, halon alternatives, water mist, etc.*
- Products of combustion and their effects on human life and environment: *Smoke, heat, other fire gases, air & water pollution, etc.*
- Flammable liquids, gases, dusts, explosives, radioactive materials, etc.: *Physical & chemical properties, classification,*

*burning characteristics, health hazard, extinguishing media & application, explosion safeguards, storage & transportation, etc.*

- Electricity and fire risks: *Electrical current, circuits conduction, resistance, insulation, measurement, etc, static electricity, switch gears, transformers & other major electrical equipments with protective devices, causes of electric fires & remedial measures, safety precautions, etc.*
- Hydraulics and water supply: *Pressure-head relationship, flow through orifices, friction loss, nozzle discharge, jet reaction, water power & break power, pump efficiency, height of the effective jets, bernoullies theorem, ventury principles, water relay, fire hydrant, etc.*
- Fire fighting appliances, equipments & gears: *Pumps & primers, hose & hose fittings, foam & foam making equipment, ropes and lines, knots & hitches, ladders, small gears, breathing apparatus, portable fire extinguishers, etc.*
- Fixed fire fighting installations: *Water, foam, carbon-dioxide, dry chemical powder, halon alternative & clean agent gases, water mist suppression systems, etc.*
- Fire detection and alarm system: *Types with working principles, choice, installation, siting & spacing of detectors, detection zoning, fire alarm audibility, manual fire alarm system, gas detection system, etc.*
- Building studies: *Properties of building materials, elements of structures, structural fire safety, classification of buildings, fire tests on building materials & structures, means of escape, exit requirement, etc.*
- Ventilation, smoke management and air conditioning systems: *System characteristics, classes of systems, smoke movement, smoke management, pressurization & compartmentation, fire & smoke stop arrangements, other safety factors, etc.*
- Fire protection in special classes of buildings: *Underground structures, buildings under construction, super high rise buildings, etc.*
- Fire drill, fire notice, fire signages, fire audit, etc.
- Routine inspection, testing and maintenance procedure of different fire & life safety installations and equipment
- Principles of Safety Management and Occupational Health
- Fire investigation
- Fire risk assessment, management & contingency planning
- Acts, rules, codes, specifications, legislations etc. related to fire & life safety.
- Management Skills & Computer Application

## Practical Training

West Bengal Fire & Emergency Services (WBFES) has a state-of-the-art training facilities in their Institute. Students undergoing Fire Safety Management course will receive hands-on practical/ laboratory training from the Institute of WBFES.

