

FIRE AND SAFETY ENGINEER

Fire Safety Engineers work on the architecture and design of a structure to minimise the risk posed by fire. They also determine what fire protection equipment a structure needs to effectively battle a fire in the event of one.

PERSONAL COMPETENCIES

- You like to work in teams
- You like to have clear instructions to follow
- You pay attention to details
- You like trying help people solve their problems

SCHOLARSHIPS

- **Merit-cum-Means based Scholarship** - About 20,000 such engineering scholarships are awarded by the Ministry of Minority Affairs every year. The full course fees of awardees is directly paid to their institutions under this scheme. *
 - **Indian Oil Educational Scholarship**- The IOC Ltd offers 300 scholarships every year to eligible students. Students need to be enrolled in an undergraduate course. The scholarship particularly focuses on students with physical disabilities, women and students from North East and J&K.*
 - "Ishan Uday" Special Scholarship Scheme - For promoting higher education and for encouraging children belonging to economically weaker section of the NE region, the UGC has launched "Ishan Uday" Special Scholarship Scheme for North Eastern Region students.
 - Visit www.scholarships.gov.in the National Scholarship Portal. Under this portal there are other central government schemes offered by different departments, UGC/AICTE Schemes and State Schemes.*
 - Visit www.buddy4study.com a gateway to scholarships starting from Class XI*
 - Scholarships are also available in the institutes based on merit.*
- *(Availability of these scholarships vary from time to time)

LOANS

- VidyaLakshmi, www.vidyalakshmi.co.in, is a portal for students seeking education loan. This portal has been developed under the guidance of the Department of Financial Services, (Ministry of Finance), Department of Higher Education (Ministry of Human Resource Development) and Indian Banks Association (IBA). Students can view, apply and track the education loan applications on the website.
- Some States have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.



The approx. course fee ranges between **20,000 to 2,00,000*** per year.

*(The above mentioned figures are approximate numbers. This will vary from Institute to Institute)

ENTRY PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Mathematics)
 2. Complete Bachelor's in Fire and Safety/ Fire Safety and Hazard Management/Fire & Industrial Engineering
- OR
- Pursue a Diploma in the similar field
- OR
- Complete Bachelor's and then pursue an MBA in Fire and Safety Management

Please check the duration of the course during enrolment



EXPECTED INCOME

The figures are indicative & subject to change

The approx. salary of a Fire Engineer ranges from **INR 15,000 - 1,67,000*** per month

Source: https://www.payscale.com/research/IN/%03-Job=Fire_Protection_Engineer/Salary



WHERE WILL YOU WORK

Places of Work: Fire Engineers work in Government fire services, in Industrial locations such as factories and manufacturing plants, Airports, Stadiums, research laboratories, Colleges, Universities and High-rise buildings among others

Work Environment: You will work usual office hours – 10 to 5, but may work longer if you are working on, or travelling to and from, a project site. You may conduct inspections, investigate fires, or provide training.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH

Fire Operator → Leading Fire Man → Fire Prevention Officer → Asst. Divisional Officer → Divisional Officer
→ Dty. Chief Fire Officer → Chief Fire Officer

WHERE WILL YOU STUDY?

The course is offered by the Department of Engineering. This list of institutes is indicative only.

GOVERNMENT INSTITUTES

1. Rashtrasant Tukadoji Maharaj Nagpur University
2. National Fire Service College, Nagpur
3. School of Engineering Cochin University of Science and Technology
4. Hemchandracharya North Gujarat University (Diploma)
5. National Institute Of Fire & Safety Management, Kolkata
6. Darbhanga College of Engineering, Bihar
7. Chhattisgarh Swami Vivekanand Technical University (Diploma)
8. Rajiv Gandhi Institute of Petroleum Technology, Amethi

PRIVATE INSTITUTES

(Please check if institute is affiliated and accredited with UGC and AICTE before applying)

1. School of Engineering, University of Petroleum and Energy Studies, Dehradun
2. Defence Institute of Advanced Technology, Pune (Diploma)
3. OPJS University, Rajgarh
4. Sandip University, Nashik
5. Galgotias University, Greater Noida (Diploma)
6. Medi-Caps University, Indore
7. JS University, Shikohabad (Diploma)
8. Singhania University, Jhunjhunu (Diploma)

Information on the institute rankings can be found at - <https://www.instituterankings.com/>

ONLINE COURSE

- Udemy - <https://www.udemy.com/course/become-a-fire-protection-design-engineer-mep-engineer/>

Search keywords...



fire engineer, fire protection engineer, fire alarm engineer

EXAMPLE FROM THE FIELD

Harshini Kanhekar is India's first female fire-fighter who joined an all-male college to fulfill her dream. She graduated from the National Fire Service College (NFSC) in Nagpur. Her job kept her away from home for months, but she won against all the hardships.*

Source: shesightmag.com/the-inspiring-story-of-harshini-kanhekar-the-first-woman-firefighter-in-india/

*The above information is for training purposes only and will not be used for any commercial gains