



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

अग्नि प्रौद्योगिकी / सुरक्षा और अग्नि इंजीनियरिंग

Fire/safety engineers make buildings, factories and public places safe from fire - designing fire-safety systems, inspecting sites and reducing risk. It is a life-saving field.



Scan for everything on this career

Salary, exams, colleges, the routes in and the steps after — all on the portal.

career.gsssjethantri.in/#/career/eng-4668

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

Govt. Sr. Sec. School, Jethantri · ब्लॉक समदड़ी · बालोतरा (Block Samdari · Balotra)

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सुशील कुमार शर्मा

प्रधानाचार्य, रा.उ.मा.वि. जेठन्तरी · मास्टर ट्रेनर
Principal, GSSS Jethantri · Master Trainer



श्री चेनाराम चौधरी

प्रधानाचार्य, डाइट बाड़मेर
Principal, DIET Barmer



श्रीमती संघमित्रा

वरिष्ठ व्याख्याता, डाइट बाड़मेर (सहयोग)
Sr. Lecturer, DIET Barmer (Support)



भरत चौधरी

अभिकल्पना व विकास · व्याख्याता (इतिहास)
Designed & developed · Lecturer (History)

विशेष धन्यवाद · SPECIAL THANKS



सुरेन्द्र सिंह राठौड़

व्याख्याता (इतिहास) · रा.उ.मा.वि. कानाना



सुरेश कुमार सैन

व्याख्याता (भूगोल) · रा.उ.मा.वि. रामसीन मूंगड़ा



वनिता कुमारी

व्याख्याता (इतिहास) · रा.उ.मा.वि. रामसीन मूंगड़ा



कमलेश चौधरी

व्याख्याता (राजनीति विज्ञान) · रा.उ.मा.वि. टापरा

करियर मार्गदर्शन कार्यशाला, डाइट बाड़मेर (14-17 जुलाई 2026) में विकसित व लोकार्पित
Developed & unveiled at the Career Guidance Workshop, DIET Barmer (14-17 July 2026)

यह एक स्वतंत्र परियोजना है, जो सरकार की आधिकारिक करियर-मार्गदर्शन सामग्री पर आधारित है। · An independent project based on the Government's official career-guidance content.

1 About this career

Fire/safety engineers make buildings, factories and public places safe from fire - designing fire-safety systems, inspecting sites and reducing risk. It is a life-saving field.

2 At a glance

Minimum qualification	12th (Science) + Diploma/B.E. in Fire/Safety
Work mode	Field and site; sometimes long hours
Demand	Good - in construction, industry and fire services
Top earning	Chief/consulting engineer: Rs 1.2-1.7 lakh+/month

3 What you need

INTERESTS

- Protecting and helping people
- Working in a team with clear instructions
- Practical, technical work

ABILITIES

- Attention to detail
- Physical fitness and alertness
- Calm decisions under pressure

KEY SKILLS

- Understanding of fire-safety systems
- Fire safety codes and standards
- Reporting and communication
- Risk assessment and inspection
- Emergency response
- Ability to train others

4 How to get there

- 1 Pass 10+2 in science stream.

- 2 Do a Diploma or B.E./B.Tech in Fire & Safety/Fire Engineering.
- 3 Complete required fitness and practical training.
- 4 Gain site experience via internship/apprenticeship.
- 5 Join fire services or industrial safety, or do MBA/Masters in fire safety.

MAIN EXAMS

- JEE Main (for B.E.)
- REAP (Rajasthan)
- State/municipal fire service recruitment

5 Where to study

GOVERNMENT INSTITUTES

- National Fire Service College — Nagpur
- RTU (affiliated fire & safety programmes) — Kota, Rajasthan
- Government Polytechnic Colleges — Rajasthan
- Cochin University School of Engineering — Kochi
- National Institute of Fire & Safety Management — Kolkata

PRIVATE INSTITUTES

- Singhania University — Jhunjhunu, Rajasthan
- OPJS University — Rajgarh, Rajasthan
- UPES — Dehradun

ONLINE

- NPTEL/SWAYAM (Safety & Fire) — Online (<https://nptel.ac.in>)
- Udemy/Coursera (Fire Safety) — Online

FEES

Diploma/degree fees are about Rs 50,000-4 lakh (full course); varies by institute.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- Vidya Lakshmi Education Loan Portal (<https://www.vidyalakshmi.co.in>)
- Buddy4Study (<https://www.buddy4study.com>)
- SJE Rajasthan Scholarships (<https://sje.rajasthan.gov.in>)

6 What the work is like

WHERE YOU WORK

Factories and plants, airports, high-rises, stadiums, labs, government fire services.

WORK CULTURE

Normal office hours, but longer on site/travel. Includes inspection, checks and training. Opportunities exist for persons with disabilities.

WHO HIRES

- State and municipal fire services
- Oil, gas and chemical industries
- Fire safety consultancy firms
- Construction and real estate firms
- Airports and metro
- Large industries and SEZs

DEMAND (2026)

Stricter fire-safety rules, fast urbanisation and industrial growth keep steady demand for fire/safety engineers in 2026.

7 Career growth

- 1 Safety Officer / Fire Officer
- 2 Fire Engineer
- 3 Senior Engineer
- 4 Chief Fire Engineer
- 5 Consulting Engineer / Director

EARNINGS

Starting	₹18,000-35,000
Mid level	₹45,000-90,000
Senior level	₹1,20,000-1,70,000+

Monthly pay; varies by industry, risk and experience. 2026 levels, indicative.

8 The good parts · The challenges

The good parts

- Respected, life-saving work
- Opportunities in both government and private
- Needed in every industry

The challenges

- Risk and physical demands
- Irregular hours and emergency duty
- High-pressure environment

9 Real-life journeys

Priya Ravichandran

Tamil Nadu's first woman fire officer

From a conservative family, Priya Ravichandran became one of India's first women fire officers. Despite 45% burns in the 2012 Chepauk fire she kept rescuing people and won the President's Gallantry Award.

JFW Online · <https://jfwonline.com/article/priya-ravichandran-from-being-indias-first-woman-fire-officer-to-chennais-joint-director/>

Sumit Khanna

Fire safety engineer and codes-standards specialist

As a project engineer, Sumit Khanna served on the government committee investigating Bangalore's Carlton Towers fire and now specialises in fire codes and standards, supporting public safety campaigns.

Beyond Carlton · https://www.beyondcarlton.org/fire_champions/fire-champion-sumit/

10 Sources & further reading

1. Rajasthan Career Guidance: Fire Technology — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%85%e0%a4%97%e0%a5%8d%e0%a4%a8%e0%a4%bf-%e0%a4%aa%e0%a5%8d%e0%a4%b0%e0%a5%8c%e0%a4%a6%e0%a5%8d%e0%a4%af%e0%a5%8b%e0%a4%97%e0%a4%bf%e0%a4%95%e0%a5%80-%e0%a4%b8%e0%a5%81%e0%a4%b0%e0%a4%95/>
2. AICTE — <https://www.aicte-india.org>
3. NPTEL (free online courses) — <https://nptel.ac.in>
4. National Career Service (NCS) — <https://www.ncs.gov.in>



And 770+ more careers — the whole portal

Interest and aptitude tests, government jobs, skill courses and a CV builder — free, no login, and it works offline.

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