



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

रेलवे इंजीनियर

Railway Engineers build and maintain tracks, bridges, signals, electric lines and trains. With Vande Bharat, metros and freight corridors, this career is growing fast.



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-4630

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

Railway Engineers build and maintain tracks, bridges, signals, electric lines and trains. With Vande Bharat, metros and freight corridors, this career is growing fast.

2 At a glance

Minimum qualification	Diploma or B.Tech in Civil/Mechanical/Electrical
Work mode	Field and office; shifts and on-call duty
Demand	Strong demand from RRB recruitments, metros and freight corridors
Top earning	₹2 lakh+ per month at senior officer level

3 What you need

INTERESTS

- Curiosity about how things work
- Working outdoors in the field
- Liking for science and maths

ABILITIES

- Technical and practical thinking
- Quick decisions under pressure
- Sense of responsibility and safety

KEY SKILLS

- Track, bridge and structural engineering
- Electric traction and rolling stock
- Safety rules and disaster management
- Signalling and telecom systems
- Project and contract management
- Team leadership

4 How to get there

- 1 Complete Class 12 in Science (Physics, Chemistry, Maths)
- 2 Do a diploma or B.Tech in Civil/Mechanical/Electrical
- 3 Become a Junior Engineer via the RRB JE exam
- 4 Or become a railway officer (IRMSE) via GATE/UPSC ESE
- 5 Take rail-specific courses at institutes like Gati Shakti Vishwavidyalaya

MAIN EXAMS

- RRB JE (Junior Engineer)
- GATE
- UPSC ESE/IRMSE
- JEE Main/REAP (for degree admission)

5 Where to study

GOVERNMENT INSTITUTES

- Gati Shakti Vishwavidyalaya (Railway University) — Vadodara, Gujarat (<https://gsv.ac.in>)
- MNIT Jaipur / RTU Kota (base degree) — Jaipur/Kota, Rajasthan (<https://www.mnit.ac.in>)
- Govt Polytechnic Colleges (Diploma) — Jaipur/Jodhpur/Ajmer, Rajasthan
- IRICEN (Indian Railways Institute of Civil Engineering) — Pune, Maharashtra
- IRISSET (Signal Engineering and Telecom) — Secunderabad, Telangana

PRIVATE INSTITUTES

- MIT College of Railway Engineering and Research — Barshi, Maharashtra
- Shri Vaishnav Vidyapeeth Vishwavidyalaya — Indore, Madhya Pradesh

ONLINE

- NPTEL/SWAYAM (Transportation Engineering) — Online (<https://nptel.ac.in>)

FEES

Courses cost about ₹6,000 to ₹2 lakh in government polytechnics/colleges; private institutes charge more.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)

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

6 What the work is like

WHERE YOU WORK

Indian Railways divisions (North Western Railway HQ in Jaipur), metro corporations, freight corridors, construction firms.

WORK CULTURE

Mix of field inspection and office; 8-9 hours, 5-6 days a week; on-call in emergencies; opportunities exist for persons with disabilities.

WHO HIRES

- | | |
|---|---------------------------------------|
| • Indian Railways/North Western Railway, Jaipur | • Jaipur Metro and DMRC |
| • DFCCIL (freight corridor) | • RVNL/IRCON/RITES |
| • Construction firms like L&T | • Alstom/Siemens/BEML (rolling stock) |

DEMAND (2026)

In 2026 Vande Bharat expansion, station redevelopment, Kavach signalling and the western freight corridor through Rajasthan keep railway engineering recruitment strong.

7 Career growth

- 1 Junior Engineer
- 2 Senior Section Engineer
- 3 Assistant/Divisional Engineer
- 4 Chief Engineer/General Manager

EARNINGS

Starting	₹35,000-55,000
Mid level	₹70,000-1,20,000
Senior level	₹1,50,000-2,50,000

Railways pay 7th Pay Commission scales plus housing, passes and allowances; JE starts at Level 6.

8 The good parts · The challenges

The good parts

- Government job security and benefits
- Direct role in nation building
- Affordable entry even via diploma

The challenges

- Transfers and remote postings
- Duty calls anytime in emergencies
- Heavy competition in recruitment exams

9 Real-life journeys

Alok Kansal

General Manager, Western Railway (IRSE)

A gold-medallist civil engineer from Roorkee, he was the engineering officer for the first Shatabdi Express and rose through track engineering to General Manager.

The Live Nagpur · <https://thelivenagpur.com/2021/04/30/alok-kansal-takes-over-addition-charge-of-general-manager-central-railway/>

Mumtaz Kazi

Loco pilot, Central Railway (Asia's first woman diesel loco driver)

Defying family resistance, Mumbai's Mumtaz chose to drive rail engines in 1991, became Asia's first woman diesel loco driver and won the Nari Shakti Puraskar - an inspiring technical-career path in the railways.

Wikipedia · https://en.wikipedia.org/wiki/Mumtaz_M._Kazi

10 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%b0%e0%a5%87%e0%a4%b2%e0%a4%b5%e0%a5%87-%e0%a4%87%e0%a4%82%e0%a4%9c%e0%a5%80%e0%a4%a8%e0%a4%bf%e0%a4%af%e0%a4%b0railway-engineer/>
2. Gati Shakti Vishwavidyalaya — <https://gsv.ac.in>
3. National Career Service — <https://www.ncs.gov.in>
4. AICTE — <https://www.aicte-india.org>



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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