



मेकेनिकल फिटर

A Mechanical Fitter (Heavy Earth Moving Machinery) is the skilled craftsperson of the heavy-machine world — assembling, servicing, maintaining and repairing crushers, pumps, compressors, forklifts and the HEMM (heavy earth moving...



Scan for everything on this career

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

career.gsssjethantri.in/#/career/voc-6297

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

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

www.gsssjethantri.in · career.gsssjethantri.in



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

A Mechanical Fitter (Heavy Earth Moving Machinery) is the skilled craftsperson of the heavy-machine world — assembling, servicing, maintaining and repairing crushers, pumps, compressors, forklifts and the HEMM (heavy earth moving machinery) used in mining and construction. Reading technical drawings, they fit components to precise tolerances, diagnose faults and bring machines back into working order. It is hands-on, safety-conscious, technical work that offers steady, well-paid employment in mining, cement, construction-equipment and heavy industry — and opens a path from an ITI Fitter start up to technician and engineer.

2 At a glance

Minimum qualification	Class 10 + ITI Fitter / NSQF Level 3–4 (age 18)
Course duration	ITI Fitter 2 years + apprenticeship
Starting salary	₹18,000–26,000/month
Work mode	Full-time job at mine/factory/workshop

3 What you need

INTERESTS

- Enjoy dismantling, assembling and repairing machines
- Enthusiasm for heavy machinery and the mining/construction industry
- Keen interest in solving technical problems

ABILITIES

- Physical fitness, stamina and endurance
- Following safety rules and managing time
- Hands-on dexterity and mechanical aptitude

KEY SKILLS

- Dismantling, fitting to tolerance and assembling mechanical units
- Maintaining and repairing crushers, pumps, compressors and HEMM

- Using hand tools, power tools and measuring instruments (vernier, micrometer)
- Fault-finding and diagnosis
- Workplace safety (PPE) and keeping maintenance records
- Reading blueprints and technical drawings
- Basic understanding of hydraulic and pneumatic systems

4 How to get there

- 1 Complete Class 10 (Maths and Science help).
- 2 Enrol in the Fitter trade (2 years) at a government/private ITI.
- 3 Do an apprenticeship at a mine/factory/workshop under NAPS.
- 4 After 18, take the NSQF Level 3 Mechanical Fitter course and a heavy-duty vehicle licence.
- 5 Gain practical experience as a junior fitter and learn HEMM maintenance.
- 6 With experience become a senior fitter/technician; via a diploma, rise to engineer.

MAIN EXAMS

- State/DGT ITI admission entrance test or merit-based admission
- NAPS registration and employer selection test for apprenticeship

5 Where to study

GOVERNMENT INSTITUTES

- सरकारी औद्योगिक प्रशिक्षण संस्थान (आईटीआई) – फिटर ट्रेड, राजस्थान — Jaipur, Jodhpur, Kota and other districts (<https://dgt.gov.in/en/node/1187>)
- राजस्थान कौशल एवं आजीविका विकास निगम (RSLDC) — Jaipur, Rajasthan (<https://livelihoods.rajasthan.gov.in/rsldc/>)
- अपरेंटिसशिप ट्रेनिंग (NAPS) – प्रशिक्षण महानिदेशालय (DGT) — All-India / Rajasthan (https://dgt.gov.in/en/Apprenticeship_Training)
- एनएसडीसी – निकटतम प्रशिक्षण केंद्र खोजें — Various districts of Rajasthan (<https://www.nsdcindia.org/find-nsdc-training-centre>)

PRIVATE INSTITUTES

- भारतीय स्किल डेवलपमेंट यूनिवर्सिटी (BSDU) — Jaipur, Rajasthan (<https://www.bsdu.in/>)
- कैपिटल गुड्स स्किल काउंसिल (CGSC) – सम्बद्ध केंद्र — All-India / New Delhi (<https://www.cgsc.in/>)

ONLINE

- भारत स्किल्स – डीजीटी ई-लर्निंग — Online (<https://bharatskills.gov.in/>)
- स्किल इंडिया डिजिटल हब — Online (<https://www.skillindiadigital.gov.in/>)

FEES

The Fitter trade at government ITIs is very low-cost (about ₹1,000–7,000 per year), and many government skill schemes (NSDC, RSLDC, PMKVY) offer training free or at a nominal fee. Apprenticeships pay a stipend too. Private institutes may charge ₹10,000–40,000.

SCHOLARSHIPS

- राष्ट्रीय छात्रवृत्ति पोर्टल (NSP) (<https://scholarships.gov.in/fresh/onlineInstituteSearchIndex>)
- Buddy4Study – ITI/Vocational Scholarships (<https://www.buddy4study.com/article/iti-scholarships>)
- SJE Rajasthan Scholarships (<https://sje.rajasthan.gov.in/>)

6 What the work is like

WHERE YOU WORK

Mines, cement plants, construction-equipment makers, heavy-industry factories, HEMM service centres and authorised garages.

WORK CULTURE

Typically 5–6 days a week, 9–10 hours a day; shift duty, overtime and travel to mines/sites are common. The work is physically demanding and requires wearing safety gear (PPE). Skilled fitters are always in demand.

WHO HIRES

- | | |
|---|--|
| • Hindustan Zinc Ltd (Vedanta) and Rajasthan's mining companies | • Rajasthan State Mines & Minerals Ltd (RSMML) |
| • Cement plants in Rajasthan (Shree Cement, UltraTech, Ambuja/ACC, JK Cement) | • L&T Construction & Mining Machinery and equipment makers (JCB, Tata Hitachi, BEML) |
| • Coal India and other mining PSUs, and HEMM service/dealer workshops | • Heavy-industry and manufacturing factories (pump, crusher, compressor makers) |

DEMAND (2026)

Rajasthan is among India's leading states in mining (zinc, marble, limestone) and cement production, where skilled mechanical fitters are constantly needed to maintain crushers, pumps and HEMM. Growing fleets of construction equipment on road, metro and infrastructure projects add to demand. An ITI Fitter qualification offers stable employment across mining, cement, railways and manufacturing.

7 Career growth

- 1 Junior / Apprentice Mechanical Fitter
- 2 Senior Fitter / Mechanical Technician (HEMM)
- 3 Maintenance Supervisor
- 4 Maintenance/Mechanical Engineer (via a diploma)

EARNINGS

Starting	₹18,000–26,000/माह
Mid level	₹28,000–45,000/माह
Senior level	₹50,000–80,000+/माह

Per Indeed, a Fitter in India earns on average about ₹19,000/month; NCS indicative figures show freshers earning ₹21,000–30,000 and experienced fitters ₹30,000–54,000/month. In mining, cement and PSUs, HEMM maintenance fitters earn more with allowances; senior technicians/supervisors and engineers (after a diploma) earn considerably more. Figures are 2026 estimates and vary by location and employer.

8 The good parts · The challenges**The good parts**

- Steady demand and stable jobs for skilled fitters in mining, cement and heavy industry
- A clear path from ITI Fitter to technician, supervisor and engineer
- Stipend during apprenticeship and good pay with allowances in PSUs

The challenges

- Physically demanding work with dust, heat and noise
- Shift duty, overtime and travel at mines/sites
- Safety risks — caution and PPE are essential around heavy machines

9 Real-life journeys

Parth Vinuprasad Desani

ITI Fitter turned Mechanical Technician (Production), Aakash Exploration Services Ltd.

Parth Vinuprasad Desani, from Larkhadiya village in Surendranagar district, Gujarat, completed the Fitter course from an ITI but struggled to find a job. He then joined a placement-linked 'Mechanical Technician (Production)' training run by SDI-Ahmedabad. On completing it, Aakash Exploration Services Ltd. offered him a technician's post. His story shows how, building on an ITI Fitter foundation and adding extra skills, one can rise to mechanical technician — the same route that leads on to senior fitter, supervisor and engineer.

Hydrocarbon Sector Skill Council (HSSC) · <https://www.hsscindia.in/public/pdf/Succes-Story-of-Trainees-from-SDIs.pdf>

Kiran Mundari

Woman HEMM Operator, Tata Steel Noamundi iron-ore mine (diploma in mechatronics)

Kiran Mundari from Jharkhand earlier worked in the control room of a Tata Steel mine and holds a diploma in mechatronics. She took up the challenge of operating heavy earth moving machinery (HEMM) and became a HEMM operator at the Noamundi iron-ore mine — a field long considered men's work. In her words, 'When others say you can't do something, you must accept the challenge.' Her story inspires girls who want to advance in heavy-machinery careers like mechanical fitter, technician or HEMM operation.

YourStory HerStory · <https://yourstory.com/herstory/2021/09/women-hemm-operators-bokaro-noamundi-tata-steel>

10 Sources & further reading

1. Rajasthan Career Guidance – Mechanical Fitter — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%ae%e0%a5%87%e0%a4%95%e0%a5%87%e0%a4%a8%e0%a4%bf%e0%a4%95%e0%a4%b2-%e0%a4%ab%e0%a4%bf%e0%a4%9f%e0%a4%b0/>
2. DGT – ITI Fitter Trade Curriculum — <https://dgt.gov.in/en/node/1187>
3. Indeed – Fitter Salary in India — <https://in.indeed.com/career/fitter/salaries>
4. Skill Council for Mining Sector (SCMS) — <https://www.skillcms.in/>
5. YourStory HerStory – Tata Steel's Women HEMM Operators — <https://yourstory.com/herstory/2021/09/women-hemm-operators-bokaro-noamundi-tata-steel>



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.

career.gsssjethantri.in