



सहायक फिटर: लेवलिंग, अलायन्मेंट और बैलन्सिंग

An Assistant Fitter (Levelling, Alignment & Balancing) is a key part of the team that installs and commissions heavy machines and rotating equipment (motors, pumps, turbines, fans, gearboxes) in factories and plants. Working...



Scan for everything on this career

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

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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)
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विशेष धन्यवाद · SPECIAL THANKS



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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

An Assistant Fitter (Levelling, Alignment & Balancing) is a key part of the team that installs and commissions heavy machines and rotating equipment (motors, pumps, turbines, fans, gearboxes) in factories and plants. Working under a senior fitter, they help lift and place the machine with cranes/jacks, level it accurately on its base (using spirit levels and shims), align two shafts precisely in a straight line, and balance the rotating parts so the machine runs with minimal vibration and wear. They also inspect and clean tools and components and follow safety rules strictly. It is a steady, hands-on technical job across the iron & steel, cement, power, auto and general manufacturing industries.

2 At a glance

Minimum qualification	Class 10 pass + NSQF Level 3 course (Class 8 + experience also accepted)
Course duration	ITI Fitter 2 years / short course 3–12 months
Starting salary	₹15,000–20,000/month
Work mode	Full-time shift work at plant/site

3 What you need

INTERESTS

- Interest in assembling and installing machines as a team
- Like following clear instructions and safety rules
- Enjoy repairing and maintaining mechanical things

ABILITIES

- Physically fit, strong and hardworking
- Good hand-tool skill and hand-eye coordination
- Attention to precise measurement and alignment

KEY SKILLS

- Using precision measuring tools (vernier, micrometer, dial gauge, feeler gauge)
- Shaft alignment using dial indicators and laser alignment tools
- Fitting, coupling, bearing work and tightening foundation bolts (torque)
- Workplace safety (PPE), lockout-tagout and rigging/lifting rules
- Levelling machines on the base using spirit levels and shim plates
- Balancing of rotating parts and vibration checking
- Inspecting tools, cleaning and maintaining machines

4 How to get there

- 1 Complete Class 10 (Class 8 with one year of experience is also accepted in some schemes).
- 2 Enrol in the NSQF Level 3 'Fitter: Levelling, Alignment & Balancing' course or the ITI 'Fitter' trade.
- 3 Practise precision measurement, alignment tools and machine safety hands-on.
- 4 Gain experience as an assistant fitter/apprentice at a plant, machine-installation or maintenance company.
- 5 With experience, move from assistant fitter to fitter and on to maintenance supervisor.
- 6 In Rajasthan, take training and placement via Government ITIs, RSLDC and NAPS apprenticeships.

MAIN EXAMS

- NCVT/SCVT ITI Fitter trade AITT exam (NTC certificate)
- Capital Goods Sector Skill Council (CGSC)/NSDC trade assessment and certification

5 Where to study**GOVERNMENT INSTITUTES**

- सरकारी औद्योगिक प्रशिक्षण संस्थान (ITI) – फिटर ट्रेड — Jaipur, Jodhpur, Kota and all districts of Rajasthan
- राजस्थान कौशल एवं आजीविका विकास निगम (RSLDC) — Jaipur, Rajasthan (<https://livelihoods.rajasthan.gov.in/rsldc/>)
- राष्ट्रीय कौशल विकास निगम (NSDC) – प्रशिक्षण केंद्र खोजें — All-India network (<https://www.nsdcindia.org/find-nsdc-training-centre>)
- एनआईओएस व्यावसायिक प्रशिक्षण केंद्र — Online / locate nearest centre (<https://voc.nios.ac.in/registration/locate-study-centre>)

PRIVATE INSTITUTES

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

ONLINE

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

FEES

Under government schemes (NSDC, RSLDC, PMKVY) the course is mostly free or very low-cost. The Fitter trade at a Government ITI has very low fees (about ₹1,000–7,000/year); private ITIs may charge roughly ₹15,000–40,000/year.

SCHOLARSHIPS

- राष्ट्रीय छात्रवृत्ति पोर्टल (NSP) (<https://scholarships.gov.in/fresh/onlineInstituteSearchIndex>)
- Buddy4Study – ITI/व्यावसायिक छात्रवृत्ति (<https://www.buddy4study.com/article/iti-scholarships>)
- सामाजिक न्याय एवं अधिकारिता विभाग, राजस्थान (SJE) छात्रवृत्ति (<https://sje.rajasthan.gov.in/>)

6 What the work is like

WHERE YOU WORK

Steel and cement plants, power plants, auto and general manufacturing factories, machine installation & maintenance companies, and mining sites.

WORK CULTURE

Work happens where the machines are installed; typically 8–9 hours a day, 5–6 days a week, sometimes in shifts. Meeting deadlines and following safety rules are equally important. With experience you can even start your own cleaning, maintenance and servicing contract/company. This field also offers opportunities for persons with disabilities.

WHO HIRES

- | | |
|---|--|
| • Steel and cement plants (e.g. JSW, Tata Steel, UltraTech, Ambuja) | • Power plants and energy companies |
| • Machine installation, erection and maintenance companies | • Automobile and general manufacturing factories |

- Mining and heavy equipment (HEMM) operating companies
- Pump, compressor, turbine and gearbox makers and service companies

DEMAND (2026)

India's manufacturing, steel, cement, power and mining industries are growing fast, and every new machine needs skilled fitters to install, level, align and balance it correctly. Rotating machines (motors, pumps, turbines) fail quickly without proper alignment, so demand for this skill in installation and maintenance stays steady — a stable career with clear scope to upskill.

7 Career growth

- 1 Assistant (Maintenance) Fitter – Levelling, Alignment & Balancing
- 2 Fitter / Maintenance Fitter
- 3 Maintenance Supervisor / Foreman
- 4 Mechanical/Maintenance Engineer via a diploma

EARNINGS

Starting	₹15,000–20,000/माह
Mid level	₹22,000–32,000/माह
Senior level	₹38,000–60,000+/माह

Per Indeed (2026), a Fitter in India earns on average about ₹19,093/month, and Rajasthan Career Guidance (NCS) also cites roughly ₹19,000–20,000/month for an assistant fitter. With experience — becoming a maintenance fitter, supervisor or alignment specialist, and in steel/cement/power plants or overseas assignments — income rises considerably. Figures are indicative and vary by location, industry and experience.

8 The good parts · The challenges

The good parts

- Stable, hands-on work in the growing manufacturing, steel and power industries
- A clear path from ITI to fitter, supervisor and (via diploma) engineer
- Steady demand for skilled fitters in India and abroad; can even start own contract/company

The challenges

- Physically demanding work around heavy machines, heights and noise
- Shift duty, overtime and pressure of emergency repairs
- Limited pay at entry level; safety lapses carry real risk

9 Real-life journeys

Darshan Gowda

IndiaSkills 2024 – Gold medallist in Mechatronics (Karnataka)

Darshan Gowda from Karnataka won the gold medal in the Mechatronics trade at the IndiaSkills 2024 national competition. Mechatronics involves assembling, installing, precisely aligning, commissioning and maintaining automated machinery — the very skills that sit at the heart of a fitter's levelling, alignment and balancing work. His success shows how, through the ITI/skilling route, mastering precise measurement and mechanical craft can earn a young person national recognition and a strong technical career.

WorldSkills India (IndiaSkills 2024 Winners) · https://www.worldskillsindia.co.in/pdf/IndiaSkills_2024_WINNERS.pdf

Kamini Ram

IndiaSkills 2024 – Gold medallist in Welding (Odisha). **Note: this is a closely-adjacent metal/fabrication trade rather than the exact fitter-levelling niche, as no verified woman was found in the exact niche.**

Kamini Ram from Odisha won the gold medal in the Welding trade at IndiaSkills 2024, proving that women can reach the top of metal and fabrication trades long treated as 'men's work'. Welding, fitting and machine installation belong to the same manufacturing (capital goods) family, where precision, strength and safety matter most. Her achievement inspires every girl who wants to grow in technical fields like fitting, welding or machine maintenance.

WorldSkills India (IndiaSkills 2024 Winners) · https://www.worldskillsindia.co.in/pdf/IndiaSkills_2024_WINNERS.pdf

10 Sources & further reading

1. Rajasthan Career Guidance – Assistant Fitter: Levelling, Alignment & Balancing — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%b8%e0%a4%b9%e0%a4%be%e0%a4%af%e0%a4%95-%e0%a4%ab%e0%a4%bf%e0%a4%9f%e0%a4%b0-%e0%a4%b2%e0%a5%87%e0%a4%b5%e0%a4%b2%e0%a4%bf%e0%a4%82%e0%a4%97-%e0%a4%85%e0%a4%b2%e0%a4%be%e0%a4%af%e0%a4%a8/>
2. Indeed – Fitter Salary in India (2026) — <https://in.indeed.com/career/fitter/salaries>
3. Indeed – Millwright Salary in India (2026) — <https://in.indeed.com/career/millwright/salaries>
4. Capital Goods Sector Skill Council of India (CGSC) — <https://www.cgssc.org/>



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