



फिटर – निर्माण (फैब्रिकेशन)

A Fitter – Fabrication is a skilled metalworker who reads engineering drawings and builds metal structures and components from them. The job involves measuring and marking out on sheet, plate, angle and pipe; cutting with a...



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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 Fitter – Fabrication is a skilled metalworker who reads engineering drawings and builds metal structures and components from them. The job involves measuring and marking out on sheet, plate, angle and pipe; cutting with a hacksaw or oxy-fuel gas cutting; drilling, grinding, filing and threading; and then joining the pieces (through fitting and basic arc/gas welding) into strong assemblies. The fitter also inspects the finished structure against specifications. Gates, grills, trusses, tanks, machine frames, vehicle bodies and industrial structures are all made with this trade. With the rapid growth of manufacturing and infrastructure, it is a steady, in-demand livelihood.

2 At a glance

Minimum qualification	Class 10 pass + age 18 (NSQF/ITI)
Course duration	ITI Fitter 2 years / Fabrication 6–12 months
Starting salary	₹12,000–18,000/month
Work mode	Full-time, hands-on work at a fabrication shop

3 What you need

INTERESTS

- Enjoy making and joining things out of metal
- Keen to work with tools, machines and a workshop environment
- Interest in engineering drawings, measurement and calculation

ABILITIES

- Good hand-eye coordination and physical fitness
- Ability to read and follow drawings and instructions
- Precision and attention to detail in measurement

KEY SKILLS

- Reading engineering drawings and marking out and measuring accordingly
- Fitting and assembly — joining components into a structure
- Correct use of measuring tools (vernier, micrometer, gauges)
- Workshop safety, PPE and tool maintenance
- Sawing, gas cutting, drilling, grinding, filing and threading/tapping
- Basic manual arc welding and oxy-fuel gas cutting
- Quality inspection — checking the finished structure against specifications

4 How to get there

- 1 Complete Class 10 and reach the age of 18.
- 2 Take admission in an ITI Fitter or Fabrication (Welder/Fitter-Fabrication) trade, or enrol in the NSQF 'Fitter – Fabrication' course.
- 3 Practise marking, cutting, drilling, fitting and basic welding hands-on.
- 4 Gain experience through an apprenticeship (NAPS) or as a trainee at a fabrication unit.
- 5 Obtain trade assessment and certification from CGSSC/NSDC and take up a job.
- 6 In Rajasthan, RSLDC/PMKVY centres also offer training and placement support.

MAIN EXAMS

- NCVT/SCVT ITI trade exam (AITT) — Fitter/Welder
- CGSSC/NSDC 'Fitter – Fabrication' assessment and certification

5 Where to study**GOVERNMENT INSTITUTES**

- राजकीय औद्योगिक प्रशिक्षण संस्थान (Govt ITI) जयपुर – फिटर/वेल्डर ट्रेड — Jaipur, Rajasthan (<https://iti.directory/jodhpur/government-industrial-training-institute-jodhpur>)
- राजकीय औद्योगिक प्रशिक्षण संस्थान (Govt ITI) जोधपुर — Jodhpur, Rajasthan (<https://iti.directory/jodhpur/government-industrial-training-institute-jodhpur>)
- राष्ट्रीय कौशल प्रशिक्षण संस्थान (NSTI) जोधपुर – डीजीटी — Jodhpur, Rajasthan (<https://nstijodhpur.dgt.gov.in/>)
- राजस्थान कौशल एवं आजीविका विकास निगम (RSLDC) — Jaipur, Rajasthan (<https://livelihoods.rajasthan.gov.in/rsldc/>)

- राष्ट्रीय कौशल विकास निगम (NSDC) – फिटर फैब्रिकेशन — All-India network (<https://nsdcindia.org/fitter-fabrication>)

PRIVATE INSTITUTES

- Capital Goods & Strategic Skills Council (CGSSC) — All-India / New Delhi (<https://cgssc.org/>)
- Bhartiya Skill Development University (BSDU) — Jaipur, Rajasthan (<https://www.bsdu.in/>)

ONLINE

- स्किल इंडिया डिजिटल हब — Online (<https://www.skillindiadigital.gov.in/>)
- एनएसडीसी – प्रशिक्षण केंद्र खोजें — Online (<https://www.nsdcindia.org/find-nsdc-training-centre>)

FEES

In government ITIs and most government skill schemes (NSDC, RSLDC, PMKVY), the Fitter/Fabrication course is free or very low-cost (roughly ₹1,000–7,000 per year). At private institutes the fee can range from ₹15,000 to ₹50,000.

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

Fabrication and structural units, machine-tool and manufacturing companies, automobile and vehicle-body workshops, construction and infrastructure projects, shipyards and industrial repair workshops.

WORK CULTURE

Typically 5–6 days a week, 8–9 hours a day; shift systems and overtime are common. The work is physical and workshop-based, requiring safety equipment (PPE). The field also offers good job opportunities abroad (Gulf countries, etc.).

WHO HIRES

- Fabrication and structural steel units (making gates, trusses, tanks, frames)
- Machine-tool and general manufacturing companies

- Automobile and vehicle body-building companies (e.g. Mahindra, Tata, Ashok Leyland)
- Public-sector undertakings (BHEL, HAL, SAIL, railway workshops)
- Construction and infrastructure companies (e.g. L&T) and EPC contractors
- Industrial repair workshops and fabrication firms in Gulf countries

DEMAND (2026)

With Make in India, infrastructure expansion and a manufacturing boom, demand for skilled fabrication fitters and welders is rising steadily. The capital-goods sector, automobiles, construction and PSUs all need this skill, and experienced fitters are also in strong demand in the Gulf. It is a trade where skill delivers both stable employment and upward growth.

7 Career growth

- 1 Fitter – Fabrication (Trainee/Junior)
- 2 Senior Fitter / Charge-hand
- 3 Supervisor – Fabrication / Assembly
- 4 Manufacturing Engineer / Manager (via a diploma)

EARNINGS

Starting	₹12,000–18,000/माह
Mid level	₹20,000–35,000/माह
Senior level	₹40,000–60,000+/माह

Per 2026 industry data, a fresher fabrication fitter/welder earns about ₹12,000–18,000/month; with 3–5 years' experience this rises to ₹25,000–40,000/month, and with specialisation (advanced welding certification, a supervisory role or an overseas job) it can exceed ₹60,000/month. These figures are indicative and vary by location, company and skill.

8 The good parts · The challenges

The good parts

- A stable, in-demand skill thanks to Make in India and infrastructure growth
- Quick employment after modest schooling; growth up to engineer via experience and a diploma
- Scope for self-employment (own fabrication shop) and jobs abroad

The challenges

- Physically demanding work — heat, sparks, noise and metal dust
- Safety hazards; PPE and caution needed at all times
- Pay can be limited at the entry level

9 Real-life journeys

Sachin Narale

Welding competitor at WorldSkills Abu Dhabi 2017; now Skill Excellence & Team Leader at Mahindra & Mahindra

Through skill training, Sachin Narale became so proficient in welding and fabrication that he represented India at the WorldSkills Competition in Abu Dhabi in 2017, winning a Medallion of Excellence in the Welding trade. Today he works as Skill Excellence and Team Leader at Mahindra & Mahindra Ltd. His story shows that with trades like fitting, fabrication and welding, even an ordinary trainee can earn national and international recognition and build a stable, respected career in a major company.

WorldSkills India · <https://worldskillsindia.co.in/life-after-worldskill.php>

Urmila Nayak

Gold-medal-winning woman welder at the National Welding League, C V Raman Global University, Odisha

In welding and fabrication — long seen as 'men's work' — Urmila Nayak of Odisha proved that women can be the very best, winning the gold medal at the National Welding League. Her win inspires every girl who wants to build a self-reliant career in technical trades like fitting, fabrication or welding, breaking gender stereotypes through hard work and skill.

National Skills Network · <https://nationalskillsnetwork.in/national-welding-league-helps-women-welders-to-weld-wonders/>

10 Sources & further reading

1. Rajasthan Career Guidance – Fitter-Fabrication — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%ab%e0%a4%bf%e0%a4%9f%e0%a4%b0-%e0%a4%a8%e0%a4%bf%e0%a4%b0%e0%a5%8d%e0%a4%ae%e0%a4%be%e0%a4%a3/>
2. NSDC – Fitter Fabrication — <https://nsdcindia.org/fitter-fabrication>
3. Capital Goods & Strategic Skills Council (CGSSC) — https://cgssc.org/qualification_pack/
4. ITI Fitter vs Welder – Salary 2026 — <https://freejobs247.com/iti-fitter-vs-welder/>
5. National Scholarship Portal — <https://scholarships.gov.in>



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