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करियर शीट · CAREER SHEET

फिटर – इलेक्ट्रिकल और इलेक्ट्रॉनिक्स असेंबली

A Fitter (Electrical & Electronics Assembly) joins the parts of electrical and electronic products made in factories — switchboards, panels, PCBs (circuit boards), and appliances like mobiles, TVs, fans and inverters — by wiring,...



Scan for everything on this career

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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 (Electrical & Electronics Assembly) joins the parts of electrical and electronic products made in factories — switchboards, panels, PCBs (circuit boards), and appliances like mobiles, TVs, fans and inverters — by wiring, soldering and testing them until they work fully. Working on the assembly line by hand or with machines, they fit components, check for faults, and also carry out repair and maintenance. Driven by India's mobile, electronics and appliance-manufacturing (EMS) industry and the PLI scheme, it is a fast-growing, stable source of employment.

2 At a glance

Minimum qualification	Class 10 pass + ITI Electronics Mechanic/Electrician (NSQF Level 3–4)
Course duration	ITI 1–2 years / NSDC course about 3–6 months
Starting salary	₹12,000–16,000/month
Work mode	Full-time job on a factory/assembly line

3 What you need

INTERESTS

- Enjoy assembling, fitting and building things
- Like analysing problems and solving them mathematically
- Interest in electronic gadgets, circuits and wiring

ABILITIES

- Good hand skills and dexterity for fine work
- Physical fitness and stamina for standing work
- Attention to detail and patience

KEY SKILLS

- Soldering, de-soldering and PCB (circuit board) assembly
- Reading circuit/wiring diagrams and wiring accordingly

- Identifying electrical-electronic components and fitting them correctly
- Assembling and repairing panels, switchboards and appliances
- Workplace safety (electrical safety, ESD) and correct use of tools
- Testing and fault-finding with multimeter and other instruments
- Quality inspection and following assembly-line processes

4 How to get there

- 1 Pass at least Class 10 (with Maths and Science).
- 2 Enrol in ITI 'Electronics Mechanic' or 'Electrician' trade, or an NSDC/ESSCI electronics-assembly course (NSQF Level 3–4).
- 3 Practise soldering, wiring, testing and reading circuits hands-on.
- 4 Gain experience through an apprenticeship (NAPS) or as an assistant fitter in an electronics/appliance factory.
- 5 With experience, move from fitter to mechanic and on to line supervisor.
- 6 In Rajasthan, DTE/RSLDC centres also offer training and placement support.

MAIN EXAMS

- NCVT/SCVT All India Trade Test (AITT) – Electronics Mechanic/Electrician
- NAPS apprenticeship and ESSCI trade certification

5 Where to study

GOVERNMENT INSTITUTES

- सरकारी औद्योगिक प्रशिक्षण संस्थान (ITI) – इलेक्ट्रॉनिक्स मैकेनिक/इलेक्ट्रीशियन ट्रेड — All districts of Rajasthan (DTE Rajasthan) (<https://dte.rajasthan.gov.in/>)
- राजस्थान आईटीआई पब्लिक जानकारी पोर्टल (कौशल, नियोजन विभाग) — Jaipur, Rajasthan (<https://kdhte.rajasthan.gov.in/itipublicinfo>)
- राजस्थान कौशल एवं आजीविका विकास निगम (RSLDC) — Jaipur, Rajasthan (<https://livelihoods.rajasthan.gov.in/>)
- 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

- Electronics Sector Skills Council of India (ESSCI) — All-India / Noida (<https://www.essci-india.org/>)
- Bhartiya Skill Development University (BSDU) — Jaipur, Rajasthan (<https://www.bsdu.in/>)

ONLINE

- स्किल इंडिया डिजिटल हब — Online (<https://www.skillindiadigital.gov.in/>)
- भारत स्किल्स – इलेक्ट्रॉनिक्स मैकेनिक अध्ययन सामग्री — Online (<https://bharatskills.gov.in/>)

FEES

Under most government schemes (government ITIs, RSLDC, NSDC, PMKVY) this training is free or very low-cost. Private ITI/electronics-assembly courses can cost roughly ₹5,000–25,000.

SCHOLARSHIPS

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

6 What the work is like

WHERE YOU WORK

Electrical and electronic factories, mobile/appliance assembly plants, EMS (electronics manufacturing services) companies, auto-electronics units, and machine servicing and distribution companies.

WORK CULTURE

Typically 5–6 days a week, about 8–9 hours a day; shift duty on the assembly line is common. The work is mostly indoors in a clean, well-lit factory. Electronics assembly also offers large numbers of opportunities for women.

WHO HIRES

- | | |
|--|--|
| • Electronics Manufacturing Services (EMS) firms — e.g. Dixon Technologies | • Mobile/electronics assembly plants — e.g. Foxconn India, Samsung, Salcomp, Tata Electronics |
| • Appliance manufacturers — e.g. Havells, Voltas, Lloyd, Blue Star | • Auto-electronics units — e.g. Bosch, Uno Minda, and industrial belts of Rajasthan (Bhiwadi/Neemrana) |

- Public-sector undertakings (PSUs) — e.g. Bharat Electronics Limited (BEL), BHEL
- Machine-tool, inverter/solar and LED-lighting makers, and servicing companies

DEMAND (2026)

Electronics manufacturing in India is booming — demand for mobile phones, appliances, EVs and solar products, plus the government's PLI (Production-Linked Incentive) scheme, is prompting companies like Dixon, Foxconn, Samsung and Tata to set up new plants and create lakhs of assembly jobs. Skilled fitters and assemblers are needed continuously, and women's participation in electronics assembly is rising especially fast — making this a stable, future-ready career.

7 Career growth

- 1 Fitter – Electrical & Electronics Assembly
- 2 Mechanic – Electrical & Electronics Assembly
- 3 Line Supervisor / Quality Inspector
- 4 Production/Assembly Shift In-charge or Team Leader

EARNINGS

Starting	₹12,000–16,000/माह
Mid level	₹18,000–28,000/माह
Senior level	₹32,000–50,000+/माह

Per sources like Indeed and SalaryExpert, in 2026 an electronic assembler earns on average roughly ₹14,000–22,000/month. With experience, overtime and promotion to supervisor/quality inspector, income rises considerably; jobs at a PSU (e.g. BEL) or a large EMS company offer better pay and stability. (Figures are indicative and subject to change.)

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

- Plentiful, stable jobs in the fast-growing electronics/PLI industry
- Clean, indoor workplace; large opportunities for women too
- Growth to mechanic, supervisor and team leader with skill and experience

The challenges

- Repetitive assembly-line work and target/shift pressure
- Long standing hours and eye/hand strain from fine work
- Limited entry-level pay; safety care needed with electricity/soldering

9 Real-life journeys

Manoj Kumar

India's Electronics-skill competitor at WorldSkills Kazan 2019

From Rohtak in Haryana, Manoj Kumar trained so hard in electronics skills that he was selected to represent India in the 'Electronics' trade at the 45th WorldSkills Competition in Kazan, Russia in 2019, where young people from around the world compete in circuit design, assembly, soldering and fault-finding. His story shows that by mastering electronics assembly through ITI/skills training, even a modest start can lead to national and international recognition and a stable technical career.

WorldSkills India · <https://worldskillsindia.co.in/kazan2019.php>

Amarmani Oraon

Solar engineer ('Solar Mama') trained at Barefoot College, Tilonia (Rajasthan)

Amarmani Oraon from Chhattisgarh learned to build, assemble and repair solar-lantern circuits at Barefoot College in Tilonia, Rajasthan, becoming a 'Solar Mama' (solar engineer). Despite little formal education, she learned to solder electronic components and assemble solar units, bringing light to her own village community. Her journey inspires every girl who wants to build a self-reliant, skilled career in electronics assembly, soldering and equipment repair.

The Wire · <https://m.thewire.in/article/education/barefoot-solar-warriors-take-gender-injustice-climate-change>

10 Sources & further reading

1. Rajasthan Career Guidance – Fitter (Electrical & Electronic Assembly) — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%ab%e0%a4%bf%e0%a4%9f%e0%a4%b0-%e0%a4%87%e0%a4%b2%e0%a5%87%e0%a4%95%e0%a5%8d%e0%a4%9f%e0%a5%8d%e0%a4%b0%e0%a4%bf%e0%a4%95%e0%a4%b2-%e0%a4%94%e0%a4%b0-%e0%a4%87%e0%a4%b2%e0%a5%87%e0%a4%95/>
2. Electronics Sector Skills Council of India (ESSCI) — <https://www.essci-india.org/>
3. Department of Technical Education, Rajasthan (ITIs) — <https://dte.rajasthan.gov.in/>
4. Indeed – Electronic Assembler Salary (India) — <https://in.indeed.com/career/electronic-assembler/salaries>
5. SalaryExpert – Electronic Assembler Salary India 2026 — <https://www.salaryexpert.com/salary/job/electronic-assembler/india>



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