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करियर मार्गदर्शन पोर्टल · Career Guidance Portal

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करियर शीट · CAREER SHEET

ऑटोमोटिव इलेक्ट्रीशियन

An Automotive Electrician is the specialist for a vehicle's electrical and electronic systems. They inspect, diagnose and repair sub-systems such as wiring, batteries, starters, alternators, headlights, horns, sensors and the ECU...



Scan for everything on this career

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

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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

An Automotive Electrician is the specialist for a vehicle's electrical and electronic systems. They inspect, diagnose and repair sub-systems such as wiring, batteries, starters, alternators, headlights, horns, sensors and the ECU (Electronic Control Unit). Using multimeters and diagnostic scanners, they trace faults and fix them safely. With the rapid rise of electric vehicles (EVs), demand for auto-electricians who understand battery, charging and motor systems is growing fast — making this a hands-on, technical career with strong scope for self-employment too.

2 At a glance

Minimum qualification	Class 10 pass + ITI trade, or NSQF Level 4 at age 18
Course duration	ITI 1–2 years / NSQF course 3–6 months
Starting salary	₹12,000–18,000/month
Work mode	Full-time at service centre/garage; self-employment too

3 What you need

INTERESTS

- Interest in vehicles and their electrical-electronic systems
- Keen to learn new EV and diagnostic technology
- Enjoy hands-on work with wires, batteries, circuits and tools

ABILITIES

- Good hand-eye coordination and a technical bent of mind
- Ability to spot faults and solve problems logically
- Physical fitness and comfort working in a team

KEY SKILLS

- Testing and repairing vehicle wiring, batteries, starters and alternators
- Understanding ECUs, sensors and electronic control systems
- Soldering, wiring harness and connector work
- Reading wiring diagrams and following electrical safety rules
- Using multimeters, scanners and diagnostic tools to trace faults
- Fixing headlights, indicators, horns and other electrical accessories
- Basic knowledge of EV battery, charging and motor systems

4 How to get there

- 1 Pass Class 10 and build an interest in technical work.
- 2 Do the 'Mechanic Auto Electrical & Electronics' or 'Auto Electrician' ITI trade (1-2 years) at a government/private ITI; or take the NSQF Level 4 Automotive Electrician course after Class 10 and age 18.
- 3 Obtain a driving licence and basic computer skills.
- 4 Gain hands-on experience through apprenticeship or OEM dealer workshops (Tata, Maruti, Bajaj, Hero, etc.).
- 5 Upskill with an added EV course (ASDC/DIYguru/Mechanic Electric Vehicle).
- 6 With experience, become a senior technician/EV specialist or open your own auto-electrical garage.

MAIN EXAMS

- NCVT/SCVT All India Trade Test (AITT) for the ITI trade
- ASDC/NSDC Automotive Electrician Level 4 assessment and certification

5 Where to study**GOVERNMENT INSTITUTES**

- राजकीय औद्योगिक प्रशिक्षण संस्थान (आई.टी.आई.) – मैकेनिक ऑटो इलेक्ट्रिकल एंड इलेक्ट्रॉनिक्स — Jaipur & other districts, Rajasthan (<https://targetstudy.com/iti/rajasthan/jaipur/trade/73-mechanic-auto-electrical-electronics/>)
- राजस्थान कौशल एवं आजीविका विकास निगम (RSLDC) — Jaipur, Rajasthan (<https://livelihoods.rajasthan.gov.in/rsldc/>)

- ऑटोमोटिव स्किल्स डेवलपमेंट काउंसिल (ASDC) — All-India (NSDC Sector Skill Council) (<https://www.asdc.org.in/>)
- राष्ट्रीय कौशल विकास निगम (NSDC) – प्रशिक्षण केंद्र खोजें — All-India network (<https://www.nsdcindia.org/find-nsdc-training-centre>)
- एन.आई.ओ.एस. व्यावसायिक प्रशिक्षण केंद्र — Online / locate nearest centre (<https://voc.nios.ac.in/registration/locate-study-centre>)

PRIVATE INSTITUTES

- Bhartiya Skill Development University (BSDU) — Jaipur, Rajasthan (<https://www.bsdu.in/>)
- DIYguru E-Mobility Institute – EV Technician / Auto Electrical & Electronics — Delhi NCR / Pune / Online (<https://courses.diyguru.org/training/ev-technician-auto-electrical-electronics-course/>)

ONLINE

- स्किल इंडिया डिजिटल हब — Online (<https://www.skillindiadigital.gov.in/>)
- e-AMRIT (नीति आयोग) – ई.वी. स्किल सेंटर — Online (<https://e-amrit.niti.gov.in/skill-center>)

FEES

At government ITIs and most skilling schemes (NSDC, RSLDC, PMKVY) the course is free or very low-cost. Private EV/auto-electrical courses can cost roughly ₹10,000–50,000.

SCHOLARSHIPS

- राष्ट्रीय छात्रवृत्ति पोर्टल (NSP) (<https://scholarships.gov.in/>)
- 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

Automobile service centres, authorised dealerships, multi-brand garages, EV companies and assembly plants, fleet workshops, and self-employment (own garage).

WORK CULTURE

Typically 6 days a week, 8–9 hours a day; shifts and overtime are common in the busy season. The work often involves grease, dust and standing, so safety rules and gloves are essential.

WHO HIRES

- Authorised car and two-wheeler service centres and dealerships (Maruti, Tata, Hyundai, Bajaj, Hero)
- Local garages and multi-brand auto-electrical workshops
- Fleet, logistics and transport companies
- EV manufacturers and startups (Ather, Ola Electric, TVS, Kinetic)
- Auto component and battery manufacturing companies
- Self-employment – your own auto-electrical/EV garage

DEMAND (2026)

Electric vehicle (EV) sales in India are rising rapidly, and so is the amount of electronics in every vehicle. This is increasing demand for automotive electricians who understand batteries, charging, wiring and ECUs — across service centres, EV companies and garages. There is a big shortage of skilled technicians, so trained youth get good opportunities and strong self-employment potential.

7 Career growth

- 1 Trainee / Automotive Electrician
- 2 Senior Automotive Electrician / Technician
- 3 EV Specialist / Workshop Supervisor
- 4 Own auto-electrical/EV garage (entrepreneur)

EARNINGS

Starting	₹12,000–18,000/माह
Mid level	₹20,000–32,000/माह
Senior level	₹40,000–60,000+/माह

Per NCS/government figures, entry pay is about ₹12,000–16,000/month, while SalaryExpert (2026) puts an experienced auto electrician's average at ~₹43,000/month and senior level at ~₹49,000/month. EV specialisation, overtime and owning a garage raise income considerably; figures vary by city, employer and skill.

8 The good parts · The challenges

The good parts

- Fast-growing demand for skilled auto-electricians due to the EV revolution
- Learn a hands-on skill cheaply, start earning early and open your own garage
- Rising electronics in every new vehicle keep the work future-proof

The challenges

- Physically demanding work with grease, dust and long hours
- Risk of electric shock on high-voltage EV batteries; caution is essential
- Entry pay is limited; constant upskilling is needed as technology changes

9 Real-life journeys

Praful Ankush Pendhari

India's Automobile Technology competitor, WorldSkills Lyon 2024 (Medallion of Excellence)

Praful Ankush Pendhari from Maharashtra became so skilled in vehicle diagnostics — engine management, electrical and electronic systems, and tracing wiring faults — that he was chosen through ASDC to represent India in the Automobile Technology trade at the 47th WorldSkills Competition 2024 in Lyon, France, where he won a 'Medallion of Excellence'. His story shows that by learning a vehicle's electrical-electronic skills through ITI/apprenticeship, even an ordinary young person can earn international recognition and build a strong career.

National Skills Network · <https://nationalskillsnetwork.in/india-secures-16-medals-and-medallions-of-excellence-at-worldskills-lyon-2024/>

Nasreen Banu

Battery assembly line production supervisor, Ather Energy (Electrical Engineering diploma)

Nasreen Banu, 25, holds a diploma in electrical engineering and electronics and works as a production supervisor on the battery assembly line at EV maker Ather Energy, handling 25 kg batteries on the scooter manufacturing line. She is the first woman in her family to study and secure formal employment. As she puts it, "A battery weighs 25 kg and we often hear that girls can't lift it, but I do." Her story inspires girls who want a career in auto-electrical and EV technology.

Business Today · <https://www.businesstoday.in/auto/story/meet-the-women-driving-indias-ev-revolution-333899-2022-05-17>

10 Sources & further reading

1. Rajasthan Career Guidance – Automotive Electrician — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%91%e0%a4%9f%e0%a5%8b%e0%a4%ae%e0%a5%8b%e0%a4%9f%e0%a4%bf%e0%a4%b5-%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%a5%80%e0%a4%b6%e0%a4%bf%e0%a4%af%e0%a4%a8/>

2. Automotive Skills Development Council (ASDC) — <https://www.asdc.org.in/>
3. DGT – Mechanic Auto Electrical & Electronics curriculum — https://dgt.gov.in/sites/default/files/2023-12/Mech.%20Auto%20Electrical%20Electronics_CTS2.0_NSQF-3.pdf
4. NSDC – Automotive Electrician Participant Guide — https://www.nsdindia.org/scmp/assets/image/1868460604-Automotive_Electrician_PG_Preview.pdf
5. SalaryExpert – Auto Electrician Salary (India, 2026) — <https://www.salaryexpert.com/salary/job/auto-electrician/india>

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