



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

मैन्युफैक्चरिंग इंजीनियर

Manufacturing (production) engineers design, run and improve the processes that make products in factories. Make in India and Rajasthan's Neemrana-Bhiwadi industrial belt keep them in demand.



Scan for everything on this career

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

career.gsssjethantri.in/#/career/eng-4632

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

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

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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

Manufacturing (production) engineers design, run and improve the processes that make products in factories. Make in India and Rajasthan's Neemrana-Bhiwadi industrial belt keep them in demand.

2 At a glance

Minimum qualification	B.Tech or diploma in Manufacturing/Production/Mechanical
Work mode	Factory shop floor and office; about 40 hrs/week, overtime possible
Demand	Rising demand from EV, auto and electronics manufacturing
Top earning	₹2.5 lakh+ per month at plant/production head level

3 What you need

INTERESTS

- Interest in how machines work
- Building and improving things
- Solving problems creatively

ABILITIES

- Critical thinking
- Team and time management
- Good communication skills

KEY SKILLS

- Machining, welding and assembly processes
- Lean manufacturing and quality (Six Sigma)
- Production planning and cost control
- CAD/CAM and CNC programming
- Automation, robotics and Industry 4.0
- Safety standards and 5S

4 How to get there

- 1 Complete Class 12 in Science (Physics, Chemistry, Maths)
- 2 Do B.Tech in Manufacturing/Production/Mechanical via JEE Main/REAP
- 3 Or start with a polytechnic diploma after Class 10
- 4 Do factory internships and learn CAD/CNC skills
- 5 Join an auto/electronics company as a Graduate Engineer Trainee

MAIN EXAMS

- JEE Main
- REAP (Rajasthan)
- GATE (for PSUs/M.Tech)

5 Where to study

GOVERNMENT INSTITUTES

- MNIT Jaipur (Mechanical Engineering) — Jaipur, Rajasthan (<https://www.mnit.ac.in>)
- Rajasthan Technical University — Kota, Rajasthan
- Govt Polytechnic Colleges (Diploma) — Jaipur/Jodhpur, Rajasthan
- IIT Kharagpur — Kharagpur, West Bengal
- SLIET Longowal — Longowal, Punjab

PRIVATE INSTITUTES

- BITS Pilani — Pilani, Rajasthan
- PSG College of Technology — Coimbatore, Tamil Nadu
- VIT Vellore — Vellore, Tamil Nadu

ONLINE

- NPTEL/SWAYAM (Manufacturing courses) — Online (<https://nptel.ac.in>)

FEES

B.Tech costs up to about ₹2 lakh in government institutes and ₹10 lakh in private ones; diploma is much cheaper.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- Rajasthan SJE Scholarships (<https://sje.rajasthan.gov.in>)
- Vidya Lakshmi Education Loan Portal (<https://www.vidyalakshmi.co.in>)

6 What the work is like

WHERE YOU WORK

Auto-EV plants, electronics units, defence factories, cement-textile mills; Neemrana, Bhiwadi and Jaipur industrial areas in Rajasthan.

WORK CULTURE

Mix of shop floor and office work; standard 40-hour week with overtime when needed; opportunities available for persons with disabilities.

WHO HIRES

- | | |
|---|--|
| • Maruti Suzuki/Tata Motors/Mahindra | • JCB India (Jaipur plant) |
| • Hero MotoCorp/Honda (Neemrana-Tapukara) | • Engineering firms like Bosch/Siemens |
| • Defence PSUs (HAL, BEL) | • Electronics/EV startups |

DEMAND (2026)

PLI schemes and expanding EV and electronics production are raising demand in 2026; Rajasthan's stretch of the Delhi-Mumbai corridor is a fast-growing hub.

7 Career growth

- 1 Graduate Trainee/Production Engineer
- 2 Project/Quality Engineer
- 3 Production Manager
- 4 Plant Head/Director (Manufacturing)

EARNINGS

Starting	₹22,000-40,000
Mid level	₹60,000-1,00,000
Senior level	₹1,50,000-2,50,000

Auto-EV firms and multinationals pay more; diploma holders start lower and grow with experience.

8 The good parts · The challenges

The good parts

- Jobs across industries, from auto to electronics
- Entry possible via low-cost diploma route
- Clear path towards management and entrepreneurship

The challenges

- Noisy shop floors and long hours on your feet
- Pressure of production targets
- Many plants are in industrial townships

9 Real-life journeys

Apoorva Joshi

Manufacturing Engineer, Bentley Motors

Raised in Varanasi, she began as a trainee at FIAT India, became its youngest and first woman pillar leader, and now works in manufacturing at Bentley Motors, UK.

The Interview Portal · <https://theinterviewportal.com/2024/11/06/manufacturing-engineer-interview-2/>

Bharath P

New Product Introduction Lead, Titan Company

From the small town of Ooty, he studied mechanical engineering, worked in tooling and product development, and now takes Tanishq products from design to factory production.

The Interview Portal · <https://theinterviewportal.com/2026/02/08/new-product-development-professional-interview/>

10 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%89%e0%a4%a4%e0%a5%8d%e0%a4%aa%e0%a4%be%e0%a4%a6%e0%a4%a8-%e0%a4%ae%e0%a5%88%e0%a4%a8%e0%a5%8d%e0%a4%af%e0%a5%81%e0%a4%ab%e0%a4%bc%e0%a4%95%e0%a5%8d%e0%a4%9a%e0%a4%b0%e0%a4%bf%e0%a4%82/>
2. National Career Service — <https://www.ncs.gov.in>
3. AICTE — <https://www.aicte-india.org>
4. NPTEL courses — <https://nptel.ac.in>



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.

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