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करियर शीट · CAREER SHEET

सी.एन.सी. ऑपरेटर – टर्निंग

A CNC Operator (Turning) runs computer-controlled lathe/turning machines that rotate cylindrical metal pieces to cut, drill and shape them into precision parts. The operator reads engineering drawings to load or adjust the...



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

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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 CNC Operator (Turning) runs computer-controlled lathe/turning machines that rotate cylindrical metal pieces to cut, drill and shape them into precision parts. The operator reads engineering drawings to load or adjust the machine program (G-code), sets up the tools and job, checks parts with measuring instruments (vernier, micrometer) and carries out routine machine maintenance so that production runs smoothly and to specification. It is a skilled technical trade at the heart of the automobile, auto-component, tool-room and machine-tool industries, with steady demand in India's growing 'Make in India' manufacturing sector.

2 At a glance

Minimum qualification	Class 10 pass + age 18 (NSQF Level 3–4)
Course duration	About 3–6 months (ITI Turner 1–2 years)
Starting salary	₹10,000–15,000/month
Work mode	Full-time at factory/machine shop, shift duty

3 What you need

INTERESTS

- Interest in hands-on work with machines and tools
- Interest in precise measurement and quality-focused technical work
- Curiosity about how things are made and how they work

ABILITIES

- Concentration, alertness and attention to detail
- Ability to work in a team and follow safety rules
- Good hand-eye coordination and basic mathematics

KEY SKILLS

- Operating CNC lathe/turning machines, setup and tool changing
- Understanding, loading and adjusting G-code programs
- Routine machine maintenance and fixing minor faults
- Following workplace safety and quality standards
- Reading engineering drawings and blueprints
- Measuring and inspecting parts with vernier, micrometer and gauges
- Identifying metals, selecting cutting tools and feed-speed

4 How to get there

- 1 Complete Class 10 (some courses need Class 12/ITI) and reach about 18 years of age.
- 2 Do the ITI 'Turner' or 'Machinist' trade, or the Capital Goods Skill Council NSQF Level 3–4 'CNC Operator – Turning' course.
- 3 Enrol at an NSDC/Skill India or RSLDC centre for hands-on practical training.
- 4 Gain experience through an apprenticeship (apprenticeshipindia.gov.in) or as a trainee in a factory/machine shop.
- 5 With experience, progress to CNC setter/programmer and on to shop supervisor.

MAIN EXAMS

- CGSC/NSDC trade assessment and certification exam; NCVT/SCVT exam for ITI

5 Where to study**GOVERNMENT INSTITUTES**

- सरकारी आईटीआई (टर्नर/मशीनिस्ट ट्रेड), राजस्थान — Jaipur, Jodhpur, Kota and other districts (<https://targetstudy.com/iti/rajasthan/trade/114-turner/>)
- राजस्थान कौशल एवं आजीविका विकास निगम (RSLDC) — Jaipur, Rajasthan (<https://livelihoods.rajasthan.gov.in/rsldc/>)
- राष्ट्रीय कौशल विकास निगम (NSDC) – सी.एन.सी. ऑपरेटर टर्निंग — All-India network (<https://nsdcindia.org/cnc-operator-turning>)
- एनआईओएस व्यावसायिक प्रशिक्षण केंद्र — Online / locate nearest centre (<https://voc.nios.ac.in/registration/locate-study-centre>)

PRIVATE INSTITUTES

- कैपिटल गुड्स स्किल काउंसिल (CGSC) संबद्ध केंद्र — All-India / New Delhi (<https://www.cgsc.in/>)
- Don Bosco Technical Institute – CNC Operator Turning — All-India centres (<https://www.dbti.in/cnc-operator-turning-ssc.html>)

ONLINE

- स्किल इंडिया डिजिटल हब — Online (<https://www.skillindiadigital.gov.in/>)
- अप्रेंटिसशिप इंडिया पोर्टल — Online (<https://www.apprenticeshipindia.gov.in/>)

FEES

Under most government schemes (NSDC, RSLDC, PMKVY) the CNC turning course is free or very low-cost. Government ITI Turner/Machinist trades charge very low fees (roughly ₹1,000–7,000 per year), while private institutes may charge around ₹10,000–40,000.

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 and auto-component factories, precision manufacturing units, tool rooms, machine-tool companies, machine shops and engineering workshops.

WORK CULTURE

Typically 5–6 days a week, about 8–9 hours a day; shift duty is common and overtime may be available. Work is mainly on the factory floor, standing near the machine, so following safety rules is essential. Jobs are available both in India and abroad.

WHO HIRES

- | | |
|--|---|
| • Automobile and auto-component makers (e.g. vendors of Tata, Mahindra, Bosch, Eicher) | • Precision engineering and machine-tool companies (e.g. Jyoti CNC, HMT) |
| • Tool rooms, die and mould making units | • Defence and aerospace PSUs (e.g. HAL, BHEL, ordnance factories) |
| • MSME fabrication and general engineering workshops | • Manufacturing units in Rajasthan's industrial belts (Bhiwadi, Neemrana, Jaipur, Kota) |

DEMAND (2026)

The expansion of 'Make in India' and the automobile, auto-component, defence and engineering industries keeps demand for skilled CNC turning operators steady. Factories making precision parts in Rajasthan's industrial belts (Bhiwadi, Neemrana, Jaipur) and across India recruit trained operators. Even as automation grows, skilled operators who can read and set programs remain essential, making this a stable, forward-looking career.

7 Career growth

- 1 CNC Operator (Turning)
- 2 CNC Setter / CNC Programmer
- 3 Shop Supervisor / Production In-charge
- 4 Own Machine Shop / Entrepreneur

EARNINGS

Starting	₹10,000–15,000/माह
Mid level	₹18,000–28,000/माह
Senior level	₹30,000–50,000+/माह

Per Indeed (2026), a CNC operator in India earns on average about ₹19,300/month, ranging from roughly ₹8,000 to ₹33,000/month by experience and city. Becoming a skilled CNC setter/programmer and working at auto-component or tool-room firms raises income considerably; work abroad (Gulf countries) can pay even more.

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

- Steady demand for skilled technical work in growing manufacturing
- A clear path to grow from setter/programmer to owning a machine shop
- Job opportunities both in India and abroad

The challenges

- Shift duty and long hours of standing work
- Risk of injury from machines, sharp tools and metal chips; alertness needed
- Pay is limited at entry level; skill upgrading is needed for good income

9 Real-life journeys

Ajaya Sethi

India's CNC Turning competitor at WorldSkills Lyon 2024 (Odisha)

Ajaya Sethi from Odisha won the Gold medal in CNC Turning at IndiaSkills 2024 on the strength of his skill, then represented India at the WorldSkills 2024 Competition in Lyon, France, where competitors from around the world contested making precision metal parts. His story shows that by learning CNC turning through ITI/skill training, a young person can reach a national and international stage and build a strong career in the manufacturing industry.

WorldSkills 2024 · <https://worldskills2024.com/en/skills/cnc-turning/>

Nthabiseng Mnisi

South Africa's woman CNC Turning competitor at WorldSkills Lyon 2024

Nthabiseng Mnisi was selected to represent South Africa in the CNC Turning skill at WorldSkills Lyon 2024 — a field often seen as 'men's work'. Competing on a world-class stage as a young woman, making precision parts on a CNC lathe, she proved that girls too can build skilled, self-reliant careers in precision machining. Her journey inspires every girl, including in India, who wants to grow in a technical field like CNC turning.

WorldSkills 2024 · <https://worldskills2024.com/en/skills/cnc-turning/>

10 Sources & further reading

1. Rajasthan Career Guidance – CNC Operator (Turning) — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%b8%e0%a5%80-%e0%a4%8f%e0%a4%a8-%e0%a4%b8%e0%a5%80-%e0%a4%91%e0%a4%aa%e0%a4%b0%e0%a5%87%e0%a4%9f%e0%a4%b0-%e0%a4%9f%e0%a4%b0%e0%a5%8d%e0%a4%a8%e0%a4%bf%e0%a4%82%e0%a4%97/>
2. NSDC – CNC Operator Turning job role — <https://nsdcindia.org/cnc-operator-turning>
3. Capital Goods Skill Council (CGSC) — <https://www.cgsc.in/>
4. Indeed – CNC Operator Salary (India, 2026) — <https://in.indeed.com/career/cnc-operator/salaries>
5. WorldSkills 2024 – CNC Turning — <https://worldskills2024.com/en/skills/cnc-turning/>



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