

CAREER PATHWAY

MACHINIST AND MACHINIST GRINDER



SKILLS TAUGHT IN ITI

- Operate all kinds of conventional machines
- Operation, control and monitoring of machines and equipment
- Plan and organize work
- Do the job as per drawing
- Write programmes and test on simulation softwares
- Operate and make components on Computerized Numerical Control (CNC) turning center and CNC vertical machining centre.
- Select and use proper work holding, tool holding equipment
- Use the right cutting tools and measuring Instruments
- Good communication skills

SKILLS NEEDED BY COMPANY

- Proficiency in safe working practices
- Operate conventional & CNC machines
- In-depth knowledge on geometrical tolerance
- Troubleshooting causes of operating errors in machines

JOB OPPORTUNITIES AFTER ITI

- Workshop Assistant in government ITIs and engineering institutions
- State & central government organizations like Railways, Neyveli Lignite Corporation (NLC), Hindustan Aeronautics Limited (HAL), Heavy Vehicles Factory (HVF), Bharat Heavy Electricals Limited (BHEL), Defence Research Development Organization (DRDO), Indian Space Research Organization (ISRO), Oil and Natural Gas Company (ONGC), and atomic power stations
- Automobile sector related jobs in Renault, Nissan, TVS, Ford, Hyundai
- Micro, small and medium scale industries.
- Cutting tool manufacturing Industry like Addission and SRP Tools Ltd.

CAREER PATHS FOR THIS TRADE

ENTRY LEVEL

- Machine Operator Trainee
- Machine Operator
- Semi-skilled Technician

MID LEVEL

- CNC Machine Operator
- Skilled Technician (Grade I, II, III)
- Foreman
- Supervisor

SENIOR LEVEL

- Junior Works Manager
- Works Manager
- Self-employment
- Entrepreneur

UPSKILLING OPPORTUNITIES

- Apprenticeship (NAC Certificate)
- Craft Instructor Training Scheme (CITS) to become an Instructor in ITIs.
- Diploma Course through lateral entry (Full-time/Part-time)
- Advanced diploma (vocational) courses under DGT as applicable
- Special short-term courses like Computer-aided Design (CAD) or Computer-aided Manufacturing (CAM) conducted by NSTI

