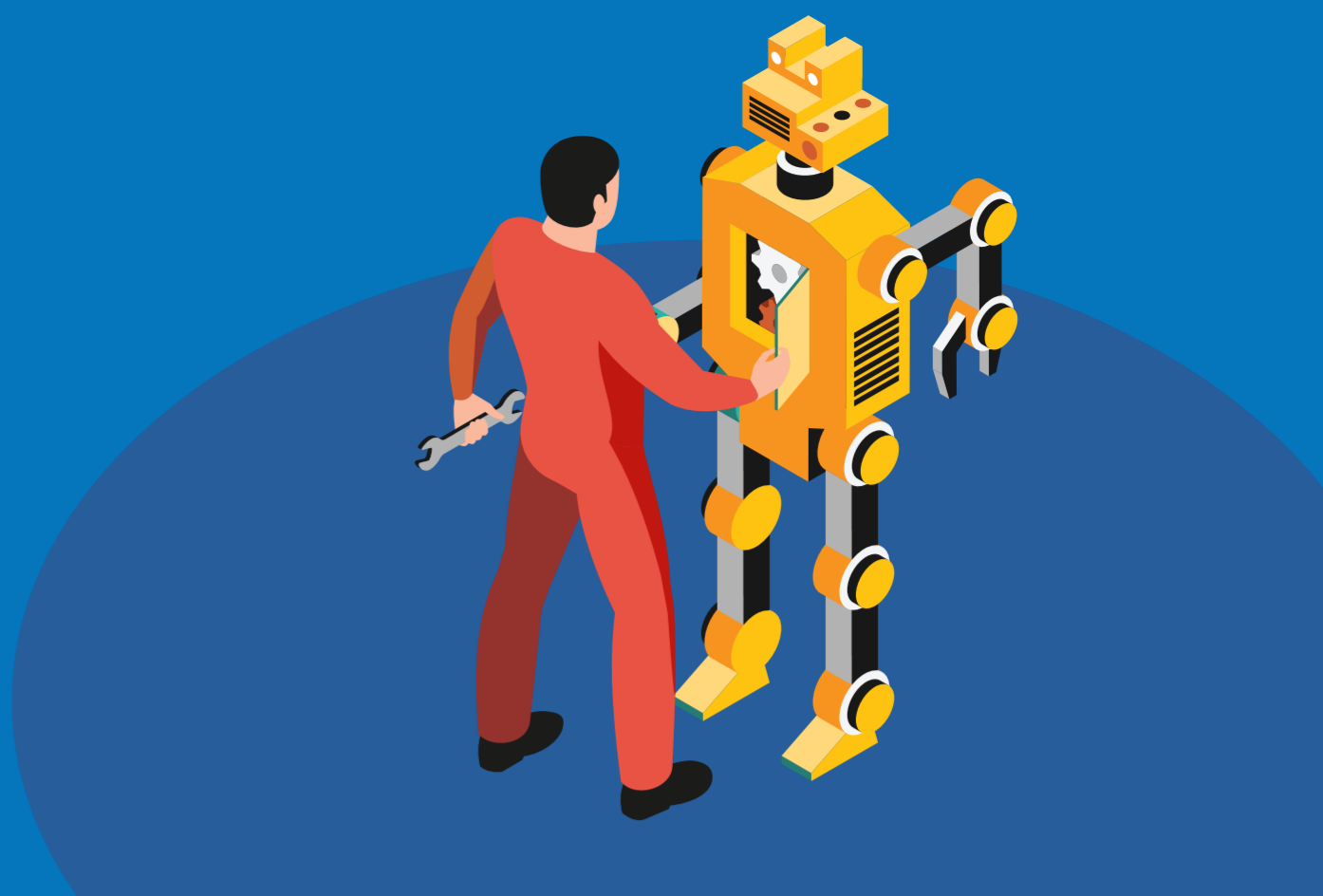


CAREER PATHWAY

OPERATOR ADVANCED MACHINE TOOLS

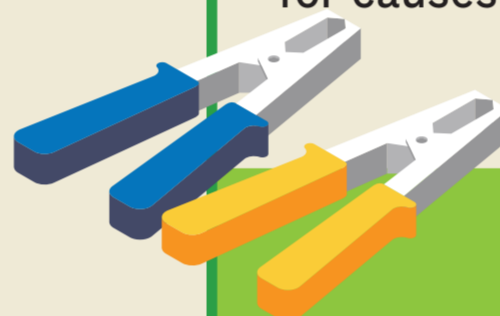


SKILLS TAUGHT IN ITI

- Operate conventional machines – lathe, milling, drilling etc.
- Produce jobs with high accuracy using precision grinding machines – cylindrical & surface grinding
- Select and use accurate work and tool holding devices, cutting tools, and measuring instruments
- Different milling operations and indexing methods to produce various types of gears
- Multimedia based training -learn to operate Computer Numerical Control (CNC) lathe and CNC Vertical Machining Center (VMC)
- Virtual CNC simulator software – Practice to acquire CNC machine operation skills without an actual machine (simulator uses a 100% replica of industry standard console panels)
- Perform simple repair, overhauling of different machines and check for functionality.

SKILLS NEEDED BY COMPANY

- Proficiency in safe working practices, environment regulation and housekeeping
- Operate conventional & CNC machines.
- In-depth knowledge about geometrical tolerance.
- Troubleshooting on Machines for causes of operating errors



JOB OPPORTUNITIES AFTER ITI

- Workshop Assistant in government ITIs and engineering institutions
- State & central government organizations like railways, Neyveli Lignite Corporation (NLC), mines, Hindustan Aeronautics Ltd. (HAL), Heavy Vehicles Factory (HVF), Bharat Heavy Electricals Ltd. (BHEL), Defence Research and Development Organization (DRDO), Indian Space Research Organization (ISRO), Oil and Natural Gas Company (ONGC), Atomic power stations etc.
- Private sector likes Addison, SRP Tools Ltd., Renault Nissan, TVS, Ford, & Hyundai Ltd.,
- Micro, small, medium enterprises

CAREER PATHS FOR THIS TRADE

ENTRY LEVEL

Machine Operator Trainee, Semi-skilled Technician,

MIDLEVEL

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 courses through lateral entry (Full-time/Part-time)
- Advanced diploma (vocational) courses under DGT as applicable
- Special short-term courses in Computer Aided Design (CAD)/Computer Aided Manufacturing (CAM) conducted by NSTI

