

CAREER PATHWAY

INSTRUMENT MECHANIC



SKILLS TAUGHT IN ITI

- Servicing and calibration of electrical measuring instruments
- Troubleshooting electronics till the component level
- Servicing and calibration of process variables (pressure, flow, level & temperature) of measuring instruments
- Building small projects using electrical and electronic principles
- Installation, testing, and calibration of HART (Highly Addressable Remote Transducer) transmitter and control valves
- Designing an efficient Programmable Logic Controller (PLC)
- Supervisory Control and Data Acquisition system (SCADA) and Distributed Control System (DCS) used in industrial plant automation
- Hydraulics and pneumatics used in automation

SKILLS NEEDED BY COMPANY

- Calibration of measuring instruments (electrical, electronics, & their process variables)
- Controlling and maintenance of process plants
- Installation of transmitter and control valves in a process line without leakage
- Testing and calibration of transmitter and control valves
- Usage of PLC, SCADA, DCS, pneumatics and hydraulics in industrial automation

JOB OPPORTUNITIES AFTER ITI

- Tamil Nadu Electrical Board (TNEB)
- Indian Railway Catering and Tourism Corporation (IRCTC)
- Atomic Power Station, Kalpakkam (APS)
- Indian Coast Guard
- Department of Employment and Training (DET)
- Chennai Petroleum Corporation Limited (CPCL)
- Tamilnadu Newsprints and Papers Ltd (TNPL)
- Refineries in Foreign Countries
- Private Organisations

CAREER PATHS FOR THIS TRADE

ENTRY LEVEL

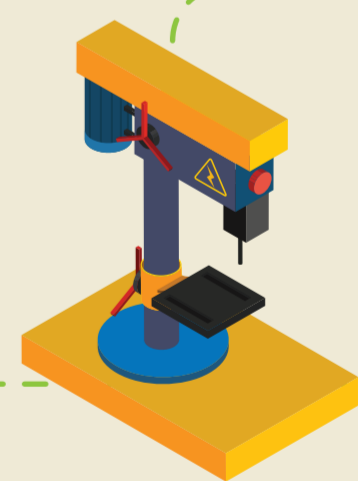
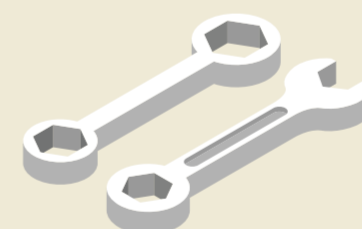
Semi-skilled Technician, Helper, Technical Assistant, and Apprentice

MIDLEVEL

Skilled Technician, Foreman, Service Engineer

SENIOR LEVEL

Senior Technician, Chageman, Supervisor, Engineer, Entrepreneur



UPSKILLING OPPORTUNITIES

- Apprenticeship (NAC Certificate)
- Craft Instructor Training Scheme (CITS) to become an Instructor in ITIs
- DIT OR DEEE (Diploma in Instrument Technology or Diploma in Electrical and Electronics Engineering)
- Advanced training in PLC, pneumatics, and hydraulics