

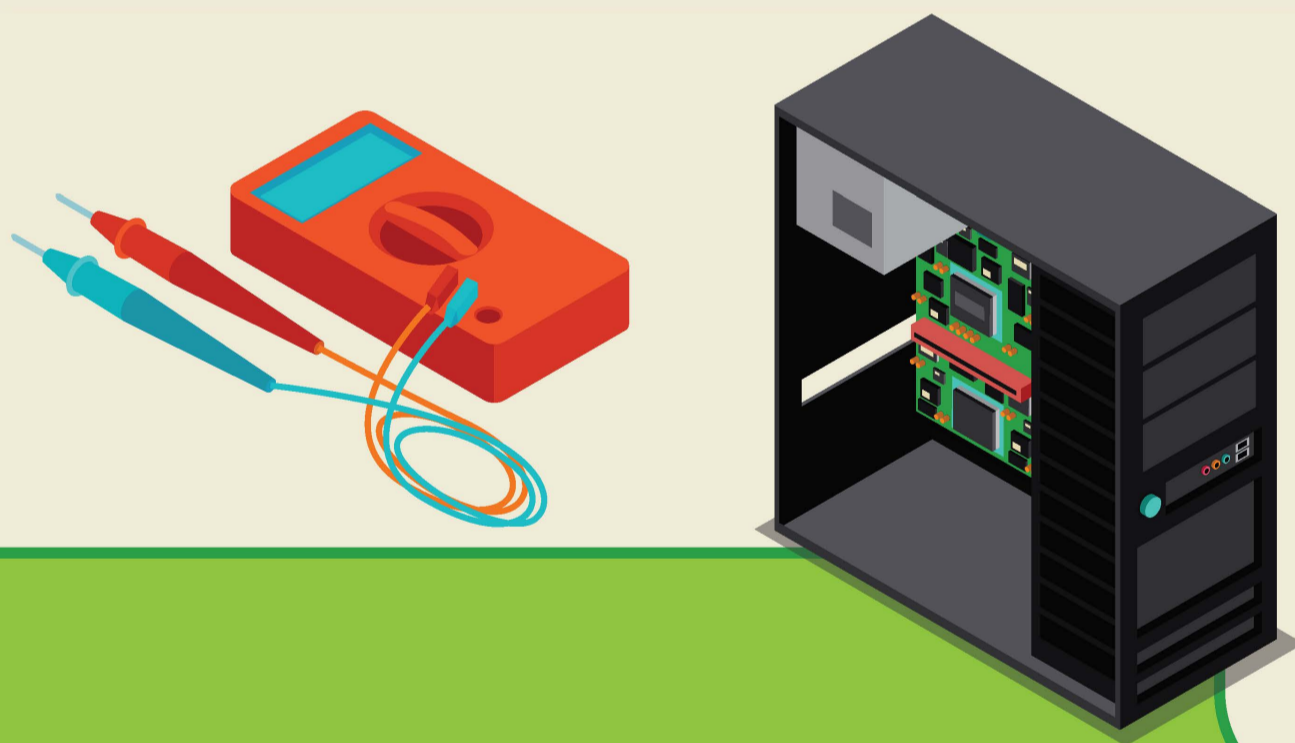
CAREER PATHWAY

ELECTRONIC MECHANIC



SKILLS TAUGHT IN ITI

- Test regulated & unregulated power supply
- Build and test amplifiers, oscillators, wave shaping circuits, power control circuits, modulation & demodulation circuits
- Understand the instruction set of 8051 microcontroller
- Link a model application with the microcontroller kit and run the application
- Identify and test different types of sensors
- Build and test circuits using sensor systems
- Identify various functional blocks/major components/ICs in a stabilizer, SMPS (Switch Mode Power Supply) & UPS and rectify faults
- Dismantle and assemble smartphones, solar panel systems, & LED light stack



CAREER PATHS FOR THIS TRADE

ENTRY LEVEL

Apprenticeship, Service Technician, Workshop Assistant

MIDLEVEL

Senior Technician, Team Leader, Trainer

SENIOR LEVEL

Supervisor / Manager, Dealership for Electronic Appliances, Entrepreneur, Training Officer

SKILLS NEEDED BY COMPANY

- Reading & interpreting technical parameters
- Document, plan, and organize work processes
- Identify necessary materials and tools
- Check the job with the help of a circuit diagram & ensure all components are present as per drawing & module.
- Rectify faults in the electronics components & module.
- Document technical parameters in the tabulation sheets

JOB OPPORTUNITIES AFTER ITI

- ISRO (Indian Space Research Organization), railways, BHEL (Bharat Heavy Electricals Limited) & airports
- Transport companies, ships, & hospitals
- Educational institutes & electronic industries
- Businesses & residential properties



UPSKILLING OPPORTUNITIES

- Diploma course in notified branches of engineering through lateral entry.
- Apprenticeship (NAC Certificate)
- Crafts Instructor Training Scheme (CITS) to become an instructor in ITIs
- Advanced diploma (vocational) courses under DGT