

CAREER PATHWAY

TECHNICIAN POWER ELECTRONIC SYSTEMS



SKILLS TAUGHT IN ITI

- Calibrate the electrical / electronic measurement instruments
- Install, configure, interconnect the given computer system (s) and demonstrate and utilize application packages for the different applications.
- Simulate and analyze the analog and digital circuits using Electronic simulator software
- Construct, test and verify and analyse the analog and power electronic circuits and opto-electronics components
- Identify, place, solder and desolder and test different SMD (Surface Mount Device) discrete components.
- Detect the faults and troubleshooting power supplies, SMD UPS and inverter.
- Preparation of fiber optic setup and execute transmission and reception.
- Installation of a solar panel, execute testing and evaluate performance.
- Install, configure and check the performance of Alternate Current (AC) and Direct Current (DC) drive and Electro- Pneumatic and servo motor / speed control of DC and AC machine.
- Execute the operation of different indications on PLC (Programmable Logic Controller) modules and configure the system.

SKILLS NEEDED BY COMPANY

- Basic Control system knowledge for controlling the motors and other programmable systems.
- Basic skill in Analog & Digital circuit basics and evaluate performance.
- Test, service and troubleshoot the various components of different domestic / industrial programmable systems.

JOB OPPORTUNITIES AFTER ITI

- Opportunities in Government sectors like Railways, ISRO, Madras Atomic power Station (MAPS) kalpakkam.
- Production & Manufacturing industries of Electronic equipments & Printed Circuit Board (PCB)
- Solar panel power industry
- Telecoms department (BSNL, MTNL, RELIANCE, HATHWAY, etc.,)
- In the home appliances companies like LG, SONY SAMSUNG, PHILIPS, ect.,

CAREER PATHS FOR THIS TRADE

ENTRY LEVEL

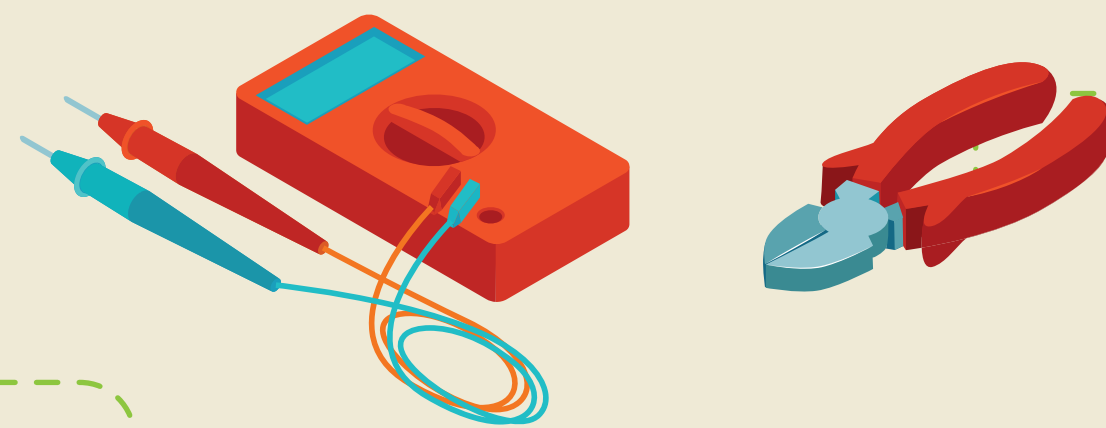
Technical Apprentice, Service technician

MIDLEVEL

Product Specialist, Field service technician
Manager / Supervisor, Operational Head,

SENIOR LEVEL

Field Service Engineer
Senior Manager / Supervisor
Entrepreneur



UPSKILLING OPPORTUNITIES

- Diploma courses in notified branches of Engineering by lateral entry.
- Apprenticeship program leading to National Apprenticeship certificate (NAC).
- Join Crafts Instructor Training Scheme (CITS) in the trade for becoming an instructor in ITIs.
- Advanced (Vocational) courses under DGT as applicable.