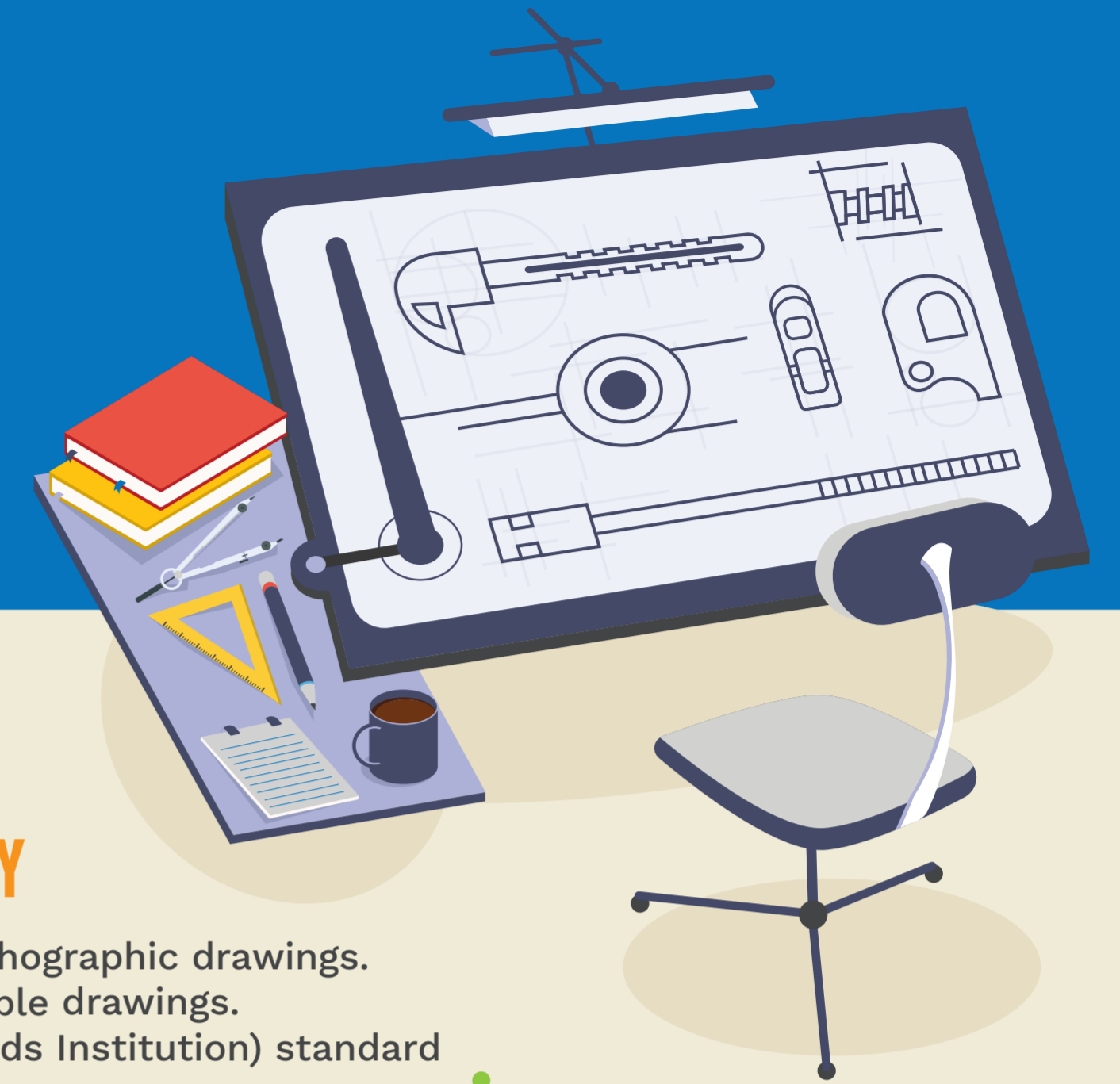


# CAREER PATHWAY

# DRAUGHTSMAN MECHANIC



## SKILLS TAUGHT IN ITI

- Ability to handle all types of drawing instruments & equipments
- Draw scales, dimensions, and sectional views
- Screw threads, bolts, nuts, foundation bolts, and locking devices.
- Draw bearings, pulleys, keys and cotters, rivets, and riveted joints.
- Draw gears, cams, valves, pipe joints, and engine parts
- Basic knowledge of fitter, turner, machinist, welder, electrician, sheet metal works, and automobiles trades.
- Use measuring Instruments like micrometers, vernier calipers, and quality control instruments of gauges.
- Knowledge of MS Office
- Drawing in Auto CAD-2D (Computer aided design - 2D) & 3D, 3D modelling, and solid works software.

## SKILL NEEDED BY COMPANY

- Convert isometric drawings to orthographic drawings.
- Convert detail drawings to assemble drawings.
- Knowledge of BSI (British Standards Institution) standard in all partial drawings
- Knowledge of MS Office
- Knowledge of AutoCAD – 2D & 3D
- Knowledge of 3D-modelling & solid works

## JOB OPPORTUNITIES AFTER ITI

- Central Government: Atomic power projects, Railways, Defence Factories – Avadi & HVF (Heavy Vehicles Factory)
- State Government: Craft Instructors at ITIs.
- Private sectors: Automobile Industries, Sheet Metal – Fabrication Factories
- Foreign Opportunities: Pipeline Industries, Structural Consultants, Oil & Natural Gas pipelines.

## UPSKILLING OPPORTUNITIES

- Apprenticeship training (NAC certificate)
- Crafts Instructor Training Scheme (CITS) to become a trainer in ITIs
- Diploma in Mechanical Engineering

## CAREER PATHS

### ENTRY LEVEL

Draughtsman CAD,  
Trainee Apprenticeship Draughtsman

### MIDLEVEL

CAD Draughtsman, CAD Designer,  
Programmer, Team Leader

### SENIOR LEVEL

Head Draughtsman, Design Supervisor,  
Site Supervisor, Senior Draughtsman CAD

