

CAREER PATHWAY

INSTRUMENT MECHANIC (CHEMICAL PLANT)

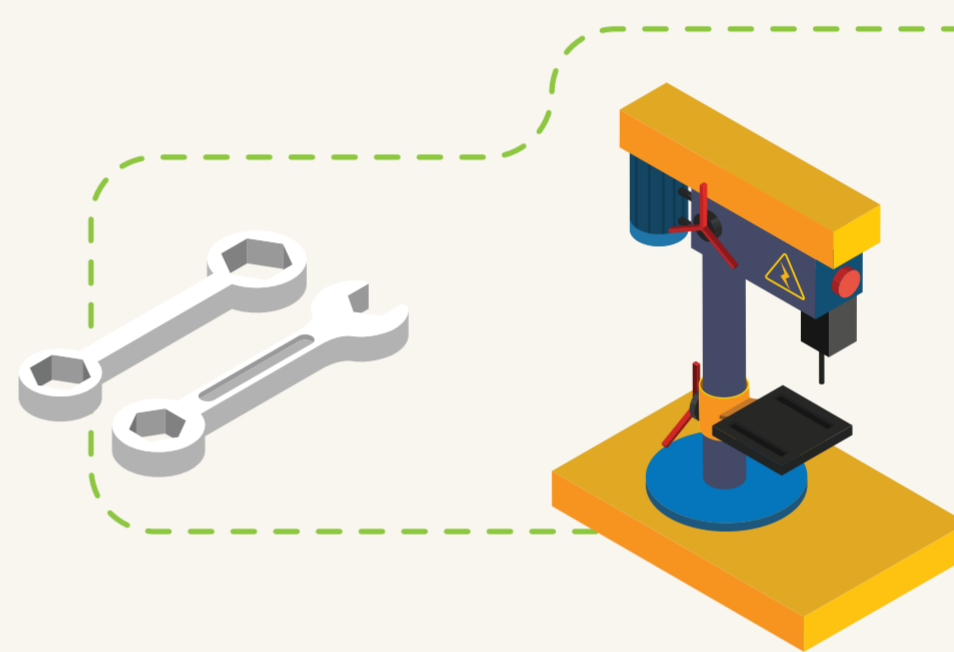


SKILLS TAUGHT IN ITI

- Safety awareness in chemical plant, PPE (Personal Protection Equipment) and fire fighting equipment
- Basic fitting, gas/arc welding and tube fitting
- Identification, test, repair and calibration of electrical/electronic components and measuring instruments
- Knowledge of basic computer hardware
- Troubleshoot, test, repair and calibration of pressure, temperature, flow level
- Measuring & controlling instruments, electronic/pneumatic converters, and safety valves
- Knowledge of PLC (Programmable Logic Controller), DCS(Distributed Control System) and SCADA (Supervisory Control and Data Acquisition)
- Maintenance and operation of heat exchanger, chiller, steam trap, distillation column and triple effect evaporator

SKILLS NEEDED BY COMPANY

- Skills in chemical, mechanical, electrical, electronic, computer basics & instrumentation
- Skills to troubleshoot, test, repair and calibrate the pneumatic, hydraulic, and electronic measuring/recording/controlling equipments



CAREER PATHS FOR THIS TRADE

ENTRY LEVEL

Apprentice, Semiskilled Technician

MIDLEVEL

Skilled Technician/Senior Technician, Supervisor

SENIOR LEVEL

Shift in-charge, Manager



JOB OPPORTUNITIES AFTER ITI

- All process industries (chemical, petrochemical, pharmaceutical, cement and sugar)
- Indian oil corporation, Hindustan Petroleum Corporation Limited (HPCL), Bharat Petroleum Corporation Limited (BPCL), and oil refineries
- Indian ordnance factory, Aruvankadu, Nilgiri
- Indian Space Research Organization (ISRO)
- Oil & Gas industries in countries like United Arab Emirates, Qatar, etc.

UPSKILLING OPPORTUNITIES

- Apprenticeship (NAC)
- Diploma course and Advanced Diploma (Vocational) courses under Directorate General of Training (DGT) as applicable
- Pre-university through National Institute of Open Schooling(NIOS) to acquire higher secondary certificate