

CIVIL ENGINEERING ASSISTANT

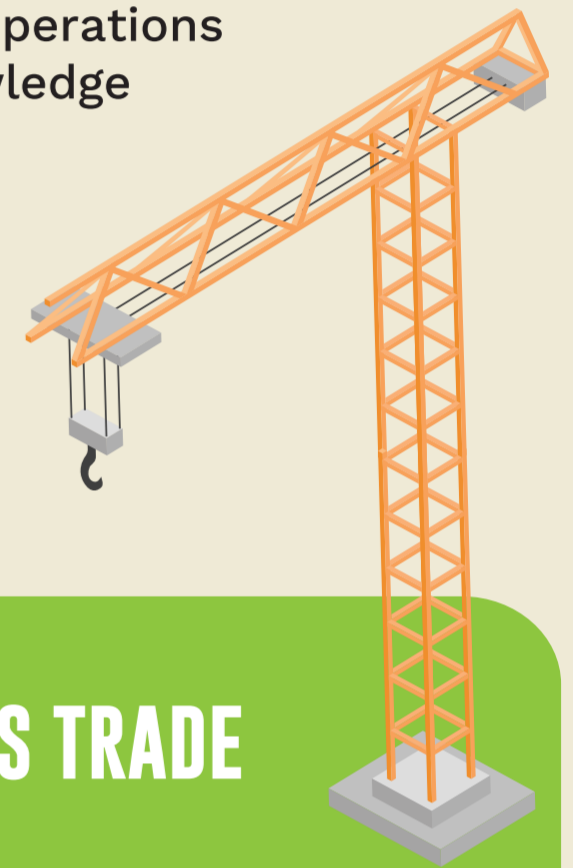


SKILLS TAUGHT IN ITI

- Draw plane figures, lettering, symbols and dimensioning techniques
- Create objects on AutoCAD workspace and 3D modeling
- Learn about wall plastering and pointing
- Identify various types of construction materials, protective materials, damp proofing materials
- Survey using chain, tape, prismatic compass, plane table, leveling instrument, theodolite & total station
- Draw a site plan, map, & contour
- Sawing, planning, surface finishing using hand and power tools
- Prepare a bar bending schedule and calculate the estimated quantity of materials
- Prepare solid modeling of Architectural/Civil 3D drawing using 3D MAX and Revit software
- Workout rate analysis of different items of works with detailed specification

SKILLS NEEDED BY COMPANY

- Installation of electrical appliances & knowledge of earthing
- Make different mathematical calculations; draw working drawing and practical operations
- Basic computer & internet knowledge
- Management of workers



JOB OPPORTUNITIES AFTER ITI

- Jobs in companies like L&T(Larsen & Toubro), P&C (Periyasamy & Chinnasamy) etc.
- State government, central government organizations like PWD(Public Works Department), National Highways Authority of India (NHAI) etc.
- Instructor at Industrial Training Institutes (ITIs)
- Entrepreneur in the construction field
- Foreign job opportunity

CAREER PATHS FOR THIS TRADE

ENTRY LEVEL

Semi-skilled civil engineering assistant, Apprenticeship

MIDLEVEL

Assistant Supervisor in construction site, architects or builders office

SENIOR LEVEL

Start own agency for construction equipment & contract

UPSKILLING OPPORTUNITIES

- Diploma courses through lateral entry
- Apprenticeship (NAC Certificate)
- Craft Instructor Training Scheme (CITS) to become an instructor in ITIs

