

BUILD ILLINOIS

TECHNICAL ENGINEER

Technical Engineers perform control, preliminary and construction surveys to provide line and grade and to establish or re-establish base lines, center and offset lines.

- Establish bench marks and transfer of grades and elevation
- Set up and operate instruments including optical & electrical, line, distance, and grade devices
- Read and interpret architectural, civil, mechanical, and electrical drawing plans and specifications
- Perform the computations necessary to lay out horizontal and vertical work points and control line for the multiple trades and crafts on construction sites and projects.

WORKING CONDITIONS

Technical Engineers primarily work outside. Their work consists of a lot of climbing, walking, stooping, and kneeling. Technical Engineers must be able to work at high levels and around earth-moving equipment in trenches and excavations.

APTITUDE AND INTEREST

Individuals interested in pursuing careers as technical engineers should be detail-oriented, enjoy problem solving, have strong people skills, fluent in math, efficient at blueprint reading, and possess basic computer skills.

TRAINING

Training is essential to become a skilled tech engineer. It can be acquired informally through "learning-by-working;" through company on-the-job training programs; by attending trade or vocational/technical schools; through unilaterally (management or labor) sponsored trainee programs; through registered labor-management apprenticeship programs, or a combination of the above. It is generally accepted that the more formalized training programs give more comprehensive skill training. Recommended high school courses include English, math, and communications.

