

# SURVEYOR

## ABOUT THIS JOB

Surveyors adjust and operate surveying instruments, such as the theodolite and electronic distance-measuring equipment. They provide information to personnel on a mine site that may include the locations of ore and waste, buildings and related land locations. They also compile notes, make sketches and enter data into computers. Surveyors typically like to conduct research and analyze information as well as work out in the field.

## SURVEYORS PERFORM THE FOLLOWING TASKS:

- Adjust and operate surveying instruments such as prisms, theodolites and electronic distance-measuring equipment
- Perform calculations to determine earth curvature corrections, atmospheric impacts on measurements, traverse closures and adjustments, azimuths, level runs and placement of markers
- Record survey measurements and descriptive data using notes, drawings, sketches and inked tracings
- Search for section corners, property irons and survey points
- Position and hold the vertical rods or targets theodolite operators use for sighting to measure angles, distances and elevations
- Layout grids and determine horizontal and vertical controls
- Compare survey computations with applicable standards to determine adequacy of data
- Set out and recover stakes, marks and other markers
- Direct and supervise work of other members of surveying parties
- Conduct surveys to ascertain the locations of natural features and man-made structures on the Earth's surface, underground and underwater using electronic distance-measuring equipment and other surveying instruments

## PREPARATION AND TRAINING FOR THIS POSITION

A high school diploma or GED, and certification from a technical training program, or a college or university degree are required for this job.

### EDUCATION:

- \* **HIGH SCHOOL DIPLOMA OR GED**
- \* **BACHELOR'S DEGREE PREFERRED**
- \* **VOCATIONAL SCHOOL**

