

Surveyors

SOC: 17-1022 • Career Profile Report

■ Key Facts

\$72,740 Median Salary	56,100 Employment	+4.0% Growth Rate
----------------------------------	-----------------------------	-----------------------------

■ Requirements & Salary Range

Education: Bachelor's degree

■ Automation Risk Assessment

Low Risk - 17.0% probability of being automated in the next 10-20 years.
This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■ Work-Life Balance

5.8/10 - Fair work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	8.2/10	Investigative	8.8/10
Artistic	6.4/10	Social	5.2/10
Enterprising	5.8/10	Conventional	6.6/10

■ Top Skills Required

Communication skills, Detail oriented, Physical stamina, Problem-solving skills, Time-management skills, Visualization skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Surveyors typically perform the following tasks:

- Direct or conduct surveys to establish legal boundaries for properties, based on legal deeds and titles.
- Prepare and maintain sketches, maps, reports, and legal descriptions of surveys to describe, certify, and assume liability for work performed.
- Write descriptions of property boundary surveys for use in deeds, leases, or other legal documents.
- Verify the accuracy of survey data, including measurements and calculations conducted at survey sites.
- Search legal records, survey records, and land titles to obtain information about property boundaries in areas to be surveyed.
- Record the results of surveys, including the shape, contour, location, elevation, and dimensions of land or land features.
- Prepare, or supervise preparation of, all data, charts, plots, maps, records, and documents related to surveys.
- Compute geodetic measurements and interpret survey data to determine positions, shapes, and elevations of geomorphic and topographic features.
- Calculate heights, depths, relative positions, property lines, and other characteristics of terrain.
- Plan and conduct ground surveys designed to establish baselines, elevations, and other geodetic measurements.
- Establish fixed points for use in making maps, using geodetic and engineering instruments.
- Determine longitudes and latitudes of important features and boundaries in survey areas, using theodolites, transits, levels, and satellite-based global positioning systems (GPS).
- Train assistants and helpers, and direct their work in such activities as performing surveys or drafting maps.
- Coordinate findings with the work of engineering and architectural personnel, clients, and others concerned with projects.
- Analyze survey objectives and specifications to prepare survey proposals or to direct others in survey proposal preparation.
- Testify as an expert witness in court cases on land survey issues, such as property boundaries.
- Adjust surveying instruments to maintain their accuracy.
- Develop criteria for survey methods and procedures.
- Survey bodies of water to determine navigable channels and to secure data for construction of breakwaters, piers, and other marine structures.
- Direct aerial surveys of specified geographical areas.