

Drafters

SOC: 17-3011 • Career Profile Report

■ Key Facts

\$65,380 Median Salary	192,100 Employment	+0.0% Growth Rate
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■ Requirements & Salary Range

Education: Associate'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

7.2/10 - Good 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

Creativity, Detail oriented, Interpersonal skills, Math skills, Technical skills, Time-management skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Drafters typically perform the following tasks:

- Produce drawings, using computer-assisted drafting systems (CAD) or drafting machines, or by hand, using compasses, dividers, protractors, triangles, and other drafting devices.
- Draft plans and detailed drawings for structures, installations, and construction projects, such as highways, sewage disposal systems, and dikes, working from sketches or notes.
- Coordinate structural, electrical, and mechanical designs and determine a method of presentation to graphically represent building plans.
- Analyze building codes, by-laws, space and site requirements, and other technical documents and reports to determine their effect on architectural designs.
- Draw maps, diagrams, and profiles, using cross-sections and surveys, to represent elevations, topographical contours, subsurface formations, and structures.
- Lay out and plan interior room arrangements for commercial buildings, using computer-assisted drafting (CAD) equipment and software.
- Supervise and train other technologists, technicians, and drafters.
- Determine the order of work and method of presentation, such as orthographic or isometric drawing.
- Finish and duplicate drawings and documentation packages according to required mediums and specifications for reproduction, using blueprinting, photography, or other duplicating methods.
- Draw rough and detailed scale plans for foundations, buildings, and structures, based on preliminary concepts, sketches, engineering calculations, specification sheets, and other data.
- Correlate, interpret, and modify data obtained from topographical surveys, well logs, and geophysical prospecting reports.
- Check dimensions of materials to be used and assign numbers to lists of materials.
- Determine procedures and instructions to be followed, according to design specifications and quantity of required materials.
- Supervise or conduct field surveys, inspections, or technical investigations to obtain data required to revise construction drawings.
- Explain drawings to production or construction teams and provide adjustments as necessary.
- Obtain and assemble data to complete architectural designs, visiting job sites to compile measurements as necessary.
- Determine quality, cost, strength, and quantity of required materials, and enter figures on materials lists.
- Locate and identify symbols on topographical surveys to denote geological and geophysical formations or oil field installations.
- Create freehand drawings and lettering to accompany drawings.
- Calculate excavation tonnage and prepare graphs and fill-hauling diagrams for use in earth-moving operations.