

# Elevator and Escalator Installers and Repairers

SOC: 47-4021 • Career Profile Report

## ■ Key Facts

\$106,580

Median Salary

24,200

Employment

+5.0%

Growth Rate

## ■ Requirements & Salary Range

Education: High school diploma

## ■ Automation Risk Assessment

**Medium Risk** - 35.0% probability of being automated in the next 10-20 years.

This job has some routine elements but still requires human judgment and interaction.

## ■ Work-Life Balance

**6.1/10** - Good work-life balance

## ■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	9.4/10	Investigative	5.8/10
Artistic	4.0/10	Social	5.0/10
Enterprising	5.0/10	Conventional	6.0/10

## ■ Top Skills Required

Ability to work at heights, Detail oriented, Mechanical skills, Physical stamina, Physical strength, Troubleshooting skills

### ✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

### ■ Challenges

- Burnout Risk
- Rapid Technological Change

## ■ What They Do

Elevator and Escalator Installers and Repairers typically perform the following tasks:

- Inspect wiring connections, control panel hookups, door installations, and alignments and clearances of cars and hoistways to ensure that equipment will operate properly.
- Assemble, install, repair, and maintain elevators, escalators, moving sidewalks, and dumbwaiters, using hand and power tools, and testing devices such as test lamps, ammeters, and voltmeters.
- Disassemble defective units, and repair or replace parts such as locks, gears, cables, and electric wiring.
- Check that safety regulations and building codes are met, and complete service reports verifying conformance to standards.
- Locate malfunctions in brakes, motors, switches, and signal and control systems, using test equipment.
- Adjust safety controls, counterweights, door mechanisms, and components such as valves, ratchets, seals, and brake linings.
- Read and interpret blueprints to determine the layout of system components, frameworks, and foundations, and to select installation equipment.
- Connect car frames to counterweights, using steel cables.
- Maintain log books that detail all repairs and checks performed.
- Connect electrical wiring to control panels and electric motors.
- Test newly installed equipment to ensure that it meets specifications, such as stopping at floors for set amounts of time.
- Participate in additional training to keep skills up to date.
- Operate elevators to determine power demands, and test power consumption to detect overload factors.
- Install electrical wires and controls by attaching conduit along shaft walls from floor to floor and pulling plastic-covered wires through the conduit.
- Attach guide shoes and rollers to minimize the lateral motion of cars as they travel through shafts.
- Install outer doors and door frames at elevator entrances on each floor of a structure.
- Assemble elevator cars, installing each car's platform, walls, and doors.
- Bolt or weld steel rails to the walls of shafts to guide elevators, working from scaffolding or platforms.
- Assemble electrically powered stairs, steel frameworks, and tracks, and install associated motors and electrical wiring.
- Cut prefabricated sections of framework, rails, and other components to specified dimensions.

---

*Generated by StartRight • Data from U.S. Bureau of Labor Statistics & O\*NET*

Source: <https://www.bls.gov/ooh/construction-and-extraction/elevator-installers-and-repairers.htm>