

ELEVATOR CONSTRUCTOR TITLE DEFINITION

I. DEFINITIONS

ELEVATOR CONSTRUCTOR

Employees in this title definition perform elevator constructor work at the journey level of skill, under general supervision. Employees assemble, install, repair or maintain electric or hydraulic freight or passenger elevators, escalators, or dumbwaiters. Other related duties may also be assigned as necessary. In addition, positions in this classification may also direct and instruct apprentices, helpers and other assistants.

Positions are assigned any combination of the following duties:

- Adjust safety controls, counterweights, door mechanisms, and components such as valves, ratchets, seals and brake linings.
- Assemble electrically powered stairs, steel frameworks, and tracks, and install associated motors and electrical wiring.
- Assemble elevator cars, installing each car's platform, walls, and doors.
- 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.
- Attach guide shoes and rollers to minimize the lateral motion of cars as they travel through shafts.
- Bolt or weld steel rails to the walls of shafts to guide elevators, working from scaffolding or platforms.
- Check that safety regulations and building codes are met, and complete service reports verifying conformance to standards.
- Connect car frames to counterweights, using steel cables.
- Connect electrical wiring to control panels and electrical motors.
- Cut prefabricated sections of framework, rails and other components to specified dimensions.
- Set up and maintain inspection, cleaning and lubrication schedules.
- Repair or replace elevator motors, generators and controller parts, including worms, gears, thrusts, bearings, brake magnet coils, brake shoes, brushes, windings, commutators, rotating elements, coils, contacts, resistor magnet frames and other parts.
- Review guide shoe gibs and guide rollers.
- Adjust, repair, or replace signals, hall buttons safety edges, safety rays, door operators, interlocks, and hangers.
- Keep records and make reports.
- Direct and instruct apprentices, helpers and other assistants.
- Perform other duties as assigned.

II. QUALIFICATIONS

Elevator Constructor: Graduation from high school or attainment of age 18 and completion of an apprenticeship approved by the Department of Commerce as an elevator constructor. Formal recognition of status by the appropriate international or local trade organization or some type of similar formal validation of journeyman status may also be accepted. Persons having informal training and experience equivalent to the formal apprenticeship and journeyman status may also be accepted upon submission of documented proof of such training and experience.

Equivalent training and experience: Completion of a 4-year program conducted by the National Elevator Industry Education Program consisting of 144-hour/year apprenticeship with 6,800 hour on-the-job training.