

APPRENTICE HEATING AND AIR CONDITIONING FITTER

DEFINITION

Performs a gradually increasing percentage of journey-level duties while learning the heating and air conditioning trade as a regularly indentured apprentice.

TYPICAL DUTIES

In a program designed to train an unskilled worker to the journey-level, an Apprentice Heating and Air Conditioning Fitter learns to:

- Install, repair, and replace hot water, high and low-pressure steam, and direct gas-fired heating systems; chilled-water and direct-expansion air conditioning systems, including condensers and cooling towers; and pressure cooking equipment.

- Install, repair, and replace pipes, traps, boilers, pumps, valves, coils, radiators, air and refrigeration compressors, space heaters, furnaces, vents, fans, blowers, safety controls, and related equipment.

- Install, test, adjust, check, repair, and replace temperature and combustion controls, instruments, and systems.

- Prepare job sketches and material and labor cost estimates.

- Identify needed repairs to prevent equipment deterioration.

Performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS AMONG RELATED CLASSES

An Apprentice Heating and Air Conditioning Fitter assists a Heating and Air Conditioning Fitter and performs duties gradually progressing from unskilled to skilled while learning the heating and air conditioning trade in a program of on-the-job training and formal instruction.

A Heating and Air Conditioning Fitter installs, replaces, and repairs steam, hot-water, and gas-fired heating, chilled-water and direct-expansion cooling, and related air conditioning equipment and controls.

SUPERVISION

General supervision is received from an Area Heating and Air Conditioning Supervisor. Technical supervision and practical instruction is received from Senior Heating and Air Conditioning Fitters and Heating and Air Conditioning Fitters as assigned. No supervision is exercised.

CLASS QUALIFICATIONS

Knowledge of:

- Use of basic hand tools
- Arithmetic and measurement
- Simple mechanical principles

Ability to:

Learn the skills of the heating and air conditioning trade through classroom instruction and on-the-job training
Follow oral and written instructions
Work effectively with other District employees
Learn and apply occupational safety regulations and procedures

Special Physical Requirements:

Visual acuity to read and calibrate instruments
Dexterity of fingers and hands to operate the necessary tools and equipment
Ability to safely lift, push, pull, and carry up to 100 pounds of equipment or materials
Ability to work safely at heights including the use of ladders, scaffolds and other related equipment
Ability to stand, walk, bend at the waist, crawl, climb, reach overhead, crouch, kneel, and maintain balance

ENTRANCE QUALIFICATIONS

Education:

Graduation from high school or evidence of equivalent educational proficiency.

And one of the three following options:

Successful completion of one year of Algebra, Geometry, and Chemistry, or Physics at the High School Level (2 semesters) OR one semester of College Algebra with a grade of "C" or better.
OR

A Certificate of Completion or Associate of Science Degree in Air Conditioning & Refrigeration curriculum from a JJATC/JAC approved Community College, Trade, or Technical School.

OR

Achieve a passing score on a test written and administered by the JJATC/JAC that encompasses Algebra, Geometry, Physics, and Chemistry. The test may be taken a maximum of two times.

Special:

Possession of a certificate of competence of Chlorofluorocarbon License type Universal in accordance with EPA Rule 608, Clean Air Act prior to the beginning of the fourth year of apprenticeship.

A valid driver's license to legally operate a motor vehicle in the State of California and use of a motor vehicle.

Employment is subject to medical clearance which meets pertinent provisions of the General Industry Safety Orders of the California Code of Regulations regarding protective equipment when exposed to hazardous materials, including, but not limited to, asbestos and lead.

This class description is not a complete statement of essential functions, responsibilities, or requirements. Requirements are representative of the minimum level of knowledge, skill, and abilities. Management retains the discretion to add or change typical duties of the position at any time.

Revised
12-13-07
ME

Updated
11-05-25
Transportation
Language Only