

# APPLIANCE MECHANIC APPRENTICE

**PURPOSE:** As a part of an approved Joint Apprenticeship Training Program, acquire the knowledge to, and perform skilled diagnostic and service work on gas-fired equipment, and perform general water and gas service.

## **FUNCTIONS:**

**1. As a part of an approved Joint Apprenticeship Training Program, acquire the knowledge to, and perform skilled diagnostic and service work on gas-fired equipment.**

- \*A. Inspect, diagnose, maintain, repair, install, and adjust gas-fired equipment and appliances in accordance with all applicable codes and ordinances.
- \*B. Inspect diagnose, maintain, repair, install, and adjust electrical or electronic motors and controls, including electronic ignition devices in accordance with all applicable codes and ordinances.
- \*C. Inspect, diagnose, maintain, repair, install, and adjust mechanical items and controls, such as mechanical safeties on gas or hot water, motor bearings, zone valves, etc.
- \*D. Conduct various approved tests in order to adjust, repair, or replace equipment to ensure safe and efficient operation.
- \*E. Inspect, diagnose, maintain, repair , install, and adjust plumbing on gas-fired equipment in accordance with all applicable codes and ordinances.

**2. Perform general water and gas service work.**

- \*A. Diagnose and repair leaks in water and gas lines.
- \*B. Inspect, diagnose, maintain, repair, install, and adjust gas regulators and meters.
- \*C. Perform bleeding procedures on water and gas lines.
- \*D. Maintain tools and equipment in a safe and proper working condition.
- \*E. Operate service vehicle.
- \*F. Perform conversions of gas-fired equipment between LP (propane) and natural gas.
- \*G. Investigate and determine cause(s) of unusually high or low water and gas bills.
- \*H. Provide information on gas-fired equipment and courteous service to customers.
- \*I. Prepare appropriate reports.
- \*J. Attend required training sessions.
- \*K. Perform installation and removals of water meters, gas meters, regulators and reliefs.

## **MINIMUM QUALIFICATIONS:**

**1. Education and Experience**

- \*\*A. Ability to transport oneself and the equipment, tools, supplies, and parts used in the work to and from service sites. This can be demonstrated by the possession of a valid Minnesota Driver's License or equivalent.
- \*\*B. Certification by the Joint Apprenticeship Training Committee upon completion of Water & Gas Utility Service Person Program; or

- \*\*C. An acceptable combination of four years verifiable education and/or experience which demonstrates possession of the following knowledge, skill, and ability requirements.

## **2. Knowledge and Skill Requirements**

- \*\*A. Knowledge of the principles, method, equipment, and materials used in water and gas utility service work, gas venting, and gas plumbing repairs.
- \*\*B. Knowledge of usability testing of water and gas lines.
- \*\*C. Knowledge of applicable safety precautions and safe work methods.
- \*\*D. Basic knowledge of State and City codes for plumbing, wiring, and venting.
- \*\*E. Skill in diagnosing and repairing water and gas service problems.
- \*\*F. Skill in using hand and power tools.

## **3. Ability Requirements**

- \*\*A. Ability to obtain knowledge of the principles, methods, equipment, and materials used in gas equipment repair.
- \*\*B. Ability to read schematic drawings.
- \*\*C. Ability to diagnose electrical and mechanical malfunctions.
- \*\*D. Ability to operate motorized equipment.
- \*\*E. Ability to instruct and supervise subordinate employees.
- \*\*F. Ability to develop and maintain effective working relationships with co-workers and the public.
- \*\*G. Ability to complete the training program as approved by the Joint Apprenticeship Training Committee.
- \*\*H. Ability to work outside year-round.
- \*\*I. Ability to work from ladders and scaffolds.
- \*\*J. Ability to lift, carry with assistance, and position tools and equipment weighing up to 100 pounds.
- \*\*K. Ability to use hand and power tools such as 24" pipe wrench, 3/8" hammer drill, cut-off saw, etc.
- \*\*L. Ability to read and interpret tools such as electronic multimeter, ruler, pipe locator, etc.
- \*\*M. Ability to attend work on a regular basis.

## **4. Other Requirements**

- \*\*A. Will be subject to periodic random drug testing as required by the U.S. Department of Transportation, Pipeline Safety regulations, part 199.

\*Essential functions of the classification.

\*\*Job requirements necessary on the first day of employment