PIPEFITTER
(CLASS CODE 3433)
Task List -2026

1. Attends safety meetings and receives instruction on various safety procedures such as lock or tag out procedures, use of power tools, and ladder safety in order to apply this instruction on the job and work safely.

2. Receives and completes written work orders and verbal instructions from supervisory personnel in order to plan the day's work activities, ensure proper understanding of the job tasks on the work order, and provide a description of the work that was performed.

3. Drives trucks, mini-trucks, forklifts, or self-operated lifts in order to get to the work location or job sites, move pipe, materials, or equipment and/or to bring the pipefitter to a height or level necessary to perform the work.

4. Visually and/or manually inspects pipe or tubing systems including equipment such as pumps, valves, exchangers, and steam traps in order to troubleshoot by locating the source of a problem in the system and notify plant maintenance of a potential issue.

5. Compares characteristics of materials and/or equipment to be worked on such as location, size, and type, on the job instruction checklist to the description on the work order in order to ensure the accuracy of the work order.

6. Lays out the entire job by visually inspecting job site and identifying the best location for materials such as pipe, tubing, and equipment such as pumps, meters, valves, supports, and other control instruments, sketching a layout of the positions of these materials and equipment on blueprints, and measuring the distance between the points to be joined, including all offsets, bends, fittings, equipment, and supports, using measuring devices such as tapes, squares, levels, plumb bobs, protractors, and snap lines, in order to determine what tools such as impact, crescent, and pipe wrenches, tape measures, levels, cutting tools and/or materials such as pipe fittings, nuts, bolts, gaskets, valves and/or equipment such as cranes, forklifts, self-operated lifts, and rigging are required for the job and to ensure that the installation of the equipment and materials will be appropriate according to written or verbal instructions received from supervision.

7. Requests, orally and/or in writing, other craft’s services such as electrical work, calibration of instruments, and scaffolding by directly contacting the appropriate supervisory personnel in order to make the work site or materials serviceable and/or ready for installation by the Pipefitter.

8. Acquires necessary tools and materials for the daily job tasks from the pipe shop or warehouse (if stocked), or submits an oral or written request that they be ordered for loading (if not stocked), into the truck to be delivered to the work site in order to ensure Pipefitters have the necessary tools and materials that are needed to properly perform the job task.

9. Completes work cards with the work site supervisor in order to make arrangements such as obtaining written permission to begin work and to ensure that the work site has been locked or tagged out.

10. Verifies necessary apparatus such as valves, pumps, meters, and electrical panels are locked or tagged out by observing, visually and/or manually, that appropriate locks or tags are in place on the apparatus in order to ensure safe working conditions.

11. Verbally communicates and collaborates with other craft workers such as laborers, carpenters, electricians, and crane operators in activities such as digging, placing scaffolding, disconnecting and connecting electrical equipment, and lifting heavy apparatuses in order to prepare the work site for pipefitter work.

12. Personally arranges rigging such as slings, shackles, chains, chain-falls, and come-alongs through such activities by comparing the rating of the rigging being used to the weight of the materials being lifted, drilling holes in a wall or ceiling to install eye bolts, and attaching beam clamps to existing beams in order to lift or lower fittings, valves, or pipe to the correct position for installation or removal.

13. Loosens or tightens nuts and/or bolts of flanges with impact, socket, and/or open-end wrenches in order to remove or install valves, meters, or other control instruments.

14. Cuts pipe, tubing, and steel using hand or power cutters, portabands, reciprocating saws, or cutting torches in order to remove existing pipe or install new pipe, tubing, and/or brackets.

15. Solders or brazes copper or brass pipe, fittings, valves, and/or copper tubing systems using acetylene gas torches such as Oxy-acetylene gas torches and propane gas torches in order to join copper piping together. .

16. Bevels fiberglass, steel, stainless steel, and other pipe ends using a beveling machine or manual methods in order to accommodate fitting or valves.

17. Bends tubing and pipe using a hand or power tube or pipe bender in order to obtain a radius or desired effect.

18. Joins or glues PVC, fiberglass pipe, or tubing using hand tools such as strap, torque, combination, and socket wrenches, chain tongs, levels and squares and/or materials such as primer, solvent, and plastic or epoxy cement and/or connections such as tees, elbows, and unions as required according to verbal or written instructions in order to ensure proper installation of piping and fittings.

19. Drills or cuts holes in PVC or fiberglass pipe, concrete or plaster ceilings or walls and steel or iron brackets, using a hand drill, drill press, roto-hammer, or coring machine in order to install pipe saddles, gauges, and/or valves, attach the brackets to the ceilings or walls, provide support for the pipe or tubing being installed, and run pipe or tubing through the concrete.

20. Threads or reams piping or tubing by using a pipe threading machine, hand threader, or hand reamer in order to join pipe with fittings such as tees, elbows, unions, and valves, deburr the inside wall of the pipe, ensure a full diameter, and prevent potential leaks.

21. Welds pipe, brackets, fittings, and/or valves using an electric arc welding machine, tig welding, or oxy- acetylene gas torch in order to properly assemble the piping system per welding specifications.

22. Cleans pipe, valves, and/or equipment such as meters, exchangers, and boilers using steam, solvents and/or tools such as brushes and power hand grinders in order to ensure piping is free of oils and debris that could potentially damage the equipment, piping systems, and/or burrs.

23. Seals openings in pipe, valves, tanks, or boilers by applying clamps, welding patch, epoxy, and/ or water plugs, and packing valves with appropriate packing such as Teflon, rubber, fiberglass, and/or graphite by wrapping the packing around the valves stem and compressing it with a packing gland in order to prevent leakage from the valve stem and ensure proper installation.

24. Reviews the scope of work, assesses and mitigates work hazards, and conducts tailgates prior to starting a job in order to ensure safe working practices.