



## Position Description

Job Title: **PIPEFITTER**

Industrial Construction Services and Design, Inc (ICON) is a full service mechanical/electrical contractor with unique custom machine engineering and fabrication capability. Industrial Construction Services and Design, Inc services manufacturers and heavy industrial markets located throughout the US and abroad by providing superior value measured in terms of quality, responsiveness and cost.

**PIPEFITTER JOB SUMMARY:** ICON applies the tradecraft name "Pipefitter" to employees with specialized technical expertise and work experience. The combination of technical expertise and work experience is used to categorize Pipefitters by Class 1, 2 or 3. ICON's entry level pipefitter is designated a Pipefitter 1 and will be encouraged to build his or her technical expertise and work experience to achieve Pipefitter 2 and 3 designations. Employee compensation rates are based upon these classification levels in addition to fair market values and other considerations. The following description encompasses all of the tasks that a fully qualified Pipefitter Class 3 should be able to perform.

Pipefitting work involves installing, modifying, and repairing new and existing piping systems and equipment. The pipefitters work from building plans, blueprints, and sketches to plan and lay out the routing, placement, pitch, elevation, pressure reduction, expansion, and operation of various piping systems and equipment. They install, modify, and repair systems by setting up system routes, placing and cutting route openings, installing hangers at proper pitch and elevation, and determining and installing such things as risers, branch outlets, expansion joints, pumps, gauges, and pressure regulators in the combination needed to ensure the proper operation of the systems. The pipefitters also install equipment by planning and completing the routing and placement of systems leading to the equipment, determining and placing the equipment at the proper elevations and points in the systems, and joining, sealing, and testing systems and equipment for proper pressures, leak-free joints, and operation.

The pipefitters are required to have knowledge of how various piping systems and equipment are installed and operate. For example, the pipefitters must know how relief valves, check valves, pressure regulators, expansion joints, and other pressure supporting and controlling devices are installed and how they operate to control increases and decreases in pressure, flow, circulation, and expansion in the systems. The pipefitters must have the ability to plan and lay out the installation, modification, and repair of various new and existing piping systems and equipment. The pipefitters, for example, must be able to lay out and install various kinds of piping, risers, mains and branch outlets at the proper elevations and incline. The pipefitters must have the ability to interpret and apply building plans and blueprints, and to use mathematics to lay out angles, arcs, and circles. The pipefitters must have skill in any of the accepted trade methods and techniques, for example, figuring pipe, joint, take outs, aligning pipes, valves, fittings, and joints for accurate match, and installing proper braces and supports to control movement and vibration and allow for expansion and contraction. The pipefitters must also have skill in the use of tools and equipment such as sliding squares, measuring tapes, dividers, chalk lines, plumb bobs, templates, star drills, grinders, hand and power pipe threaders and cutters, and pipe wrenches. Supervisors assign work orally and through work orders, building plans, and blueprints. The pipefitters plan and lay out the needed routing, placement, pitch, incline, and elevation of systems and equipment. The pipefitters test systems and equipment after completing work for proper circulation, flow, pressure, and leak-free joints. Pipefitters make repairs and installations from ladders, scaffolding, and platforms, and where the systems and equipment worked on are in hard-to-reach places. This requires the pipefitters to stand, stoop, bend, kneel, climb and work in tiring and uncomfortable positions. The pipefitters frequently handle, lift, carry, and set up parts and equipment that weigh up to 50 pounds (23 kg) and occasionally, the pipefitters may lift and carry items that weigh over 50 pounds (23 kg).