

Pipe Welder Job Description

Duties and Responsibilities:

- Assemble and install metal pipes and pipe fittings for stainless and carbon steel projects
- Use clamps, brackets, and hangers to secure pipes to structures
- Remove slags and rough spots from workpieces by operating grinders or scrapers to ensure smooth work surface
- Employ their knowledge of metallurgy to determine materials and equipment most suitable for a welding project
- Clean and prepare workpieces using chemical solutions etc. to remove foreign matter such as grease, rust etc.
- Use heating furnaces to preheat metal pipes prior to welding or bending
- Cut and shape metal components to set specifications using power saws, chipping knives or other hand tools
- Fill holes, cracks, and dents on metal workpieces or pipe products
- Use micrometers, calipers and other precision measuring instruments to check gap allowances, grooves or angles
- Assemble metal and non-metal pipes and pipe fitting using threading machine
- Study schematics, diagrams, and blueprints in order to determine the layout of pipes
- Measure and fabricate pipe routings to match existing in-line piping systems
- Control and turn valves or regulators to adjust flames and ensure proper use of welding gas
- Wear appropriate protective gear and ensure compliance with established health/safety regulations
- Troubleshoot a piping system and conduct diagnosis to identify and fix pipe problems.

Pipe Welder Requirements – Skills, Knowledge, and Abilities

- Education and Training: To become a pipe welder, you require minimum of a high school diploma or similar qualification. You are also required to complete a 3-5 year apprenticeship program with a Labor Union. As an added advantage, you can obtain certification from the American Welding Society (AWS) or other recognized body to demonstrate proficiency in specialized welding processes such as GTAW, FCAW etc.
- Problem-solving Skill: Pipe welders are given to conducting tests to identify and fix problems in a piping system
- Technical Skill: Pipe welders are able to operate hi-tech welding equipment and tools in carrying out welding operations
- Communication Skill: Pipe welders are able to comprehend safety rules, equipment instructions as well as producing detailed reports of work activities
- Pre-employment tests: To be accepted into an apprenticeship pipe welding program or offered a job after training, you may be required to take and pass a test. Learn about the [assessment test](#) you may need to take and how to come out tops.