

| Occupation | Knowledge | Skills | Abilities | Job Titles |
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| Welder | <p>Production and Processing — Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.</p> <p>Design — Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.</p> <p>Administration and Management — Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.</p> <p>Mechanical — Knowledge of machines and tools, including their designs, uses, repair, and maintenance.</p> <p>Mathematics — Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.</p> <p>Customer and Personal Service — Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.</p> <p>English Language — Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.</p> <p>Engineering and Technology Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.</p> | <p>Critical Thinking — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.</p> <p>Operation and Control — Controlling operations of equipment or systems.</p> <p>Monitoring — Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.</p> <p>Reading Comprehension — Understanding written sentences and paragraphs in work related documents.</p> | <p>Arm-Hand Steadiness — The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.</p> <p>Near Vision — The ability to see details at close range (within a few feet of the observer).</p> <p>Control Precision — The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.</p> <p>Multi-limb Coordination — The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.</p> <p>Problem Sensitivity — The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.</p> <p>Visualization — The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.</p> <p>Manual Dexterity — The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.</p> <p>Depth Perception — The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.</p> <p>Information Ordering — The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).</p> <p>Selective Attention — The ability to concentrate on a task over a period of time without being distracted.</p> | <p>Auto Welder</p> <p>Boat dock Welder</p> <p>Stainless Steel Welder</p> <p>Combo Welder</p> <p>ASME Certified Welder</p> <p>Certified MIG Welder</p> <p>Clad Welder</p> <p>Code Welder</p> <p>Combo Pipe Welder</p> <p>Container Shop Welder</p> <p>Craftsman Helper</p> <p>Entry Level Production</p> <p>Fabricator/Welder</p> <p>Fitter</p> <p>Fitter Entry</p> <p>Fitter/Welder Combo Senior</p> <p>Flux Core</p> <p>Industrial Welder Combo</p> <p>Industrial Welder Structural</p> <p>Instrument Fitter</p> <p>Lead Welder</p> <p>Manufacturing Specialist</p> <p>Master Craftsman</p> <p>MIG</p> <p>Pipe Fabricator/Welder</p> <p>Production Welder</p> <p>SMAW/GTAW Pipe Welder</p> <p>Structural Fitter</p> <p>Sub Arc Seam Welder</p> <p>TIG</p> <p>Track Welder</p> |