

# **JOB DESCRIPTION – GENERAL MECHANIC (IRONWORKER)**

## **JOB DUTIES AND RESPONSIBILITIES**

Performs any combination of following duties to raise, place, and unite girders, columns, and other structural steel members to form completed structures or structure frameworks, working as member of crew: Sets up hoisting equipment for raising and placing structural steel members. Verifies grade. Fastens steel members to cable of hoist, using chain, cable or rope. Signals worker operating hoisting equipment to lift and place member. Guides member, using tag line (rope). Pulls, pushes, or pries steel members into approximate position while hoisting device supports member. Forces members into final position, using turnbuckles, crowbars, jacks, and hand tools. Aligns rivet holes in members with corresponding holes in previously placed member by driving in drift pins or handle of wrench through holes. Verifies vertical and horizontal alignment of members, using plumb bob and level. Bolts aligned members to keep them in position until they can be permanently riveted, bolted, or welded in place. Cuts and welds steel members to make alterations, using oxyacetylene welding equipment. Performs the duties of rod buster in foundation erection. May be required to work while wearing respiratory protection, either air supplied or air purifying, depending upon atmospheric conditions and work location. May be required to work in confined spaces, above ground in excess of fifty feet, outdoors in direct sunlight and in seasonal temperature extremes. Some of these job duties are not full time; project size and organization of work determine whether workers spend their time on one duty or transfer from duty to duty as project progresses to completion.

## **TOOLS, EQUIPMENT AND DEVICES REQUIRED ON THE JOB**

Channel Lock Pliers 9"	25' Tape Rule	Hacksaw
Combination Wrench 7/8"	Combination Wrench 1-1/16"	Sleever Bar
Combination Wrench 1-1/4"	Gloves	1-1/16" Spud Wrench
2" X 6" Wedges (Brass)	18" Pipe Wrench	1-1/8" Spud Wrench
Crescent Wrench 12"	Tool Box w/Lock	18" Pry Bar
Torpedo Level	Safety Glasses	Striker
Ball Pein Hammer 16 oz.	Hardhat	Rigging Belt
4# Sledge Hammer		

## **NON-PHYSICAL JOB REQUIREMENTS**

The Dictionary of Occupational Titles, Fourth Edition, Revised 1991, United States of America, Department of Labor Specific Vocational Rating for Ironworker is: Over 2 years up to and including 4 Years.

## **PERSONAL TRAITS**

The ability to get along well with co-workers and management and the ability to work together with other employees as part of a group, the ability to accurately communicate ideas, instructions, questions, problems, solutions. The ability to accurately receive and understand ideas, instructions, questions, problems, solutions or feelings understanding of the nature and causes of accidents, appreciative of the effects and seriousness of accidents, alert and attentive for possible hazards, takes necessary actions to prevent accidents - is not accident prone and does not have a history of chronic unsafe behavior.

## **PHYSICAL JOB REQUIREMENTS**

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The ability to verbally communicate alarms or warnings clearly, concisely, loudly and quickly, to clearly and quickly hear or otherwise sense alarms or warnings and take appropriate action, maintain equilibrium to prevent falling when moving, walking, standing, kneeling or crouching - particularly on narrow, uneven, irregular, slippery surfaces, going up or down ladders, stairs, scaffolding, ramps, poles or other objects using hands, arms, feet or legs. Moves about on hands and feet, bending the body downward and forward bending leg and spine - working in a bent over position. Sensing physical attributes such as size, shape, temperature, texture or sharpness of an object by touching. Foot agility and dexterity - operating pedals, foot controls, kick bars and other similar tasks that require foot or toe motion. Grasping, gripping or applying pressure to an object with the fingers and palm, holding an object in the hand. The ability to clearly and concisely perceive sounds, the ability to hear and understand detailed oral communications, the ability to hear warning signals and alarms given verbally and mechanically. Lifting, raising or lowering objects in a vertical direction, particularly heavy or bulky objects. Moving objects backward, forward, in or out in a horizontal direction, particularly heavy or bulky objects. Pulling, exerting a steady backward, downward, upward or outward force against an object - jerking, plucking, wrenching, stretching, towing, drawing, dragging or tugging objects in a sustained motion. Pushing, pressing against something with steady forward, downward, upward or outward force - shoving, pushing, compressing, squeezing, mashing, packing, pressing, jamming, compacting, or squashing objects in a sustained motion. Reaching, extending the hand(s) and/or arm(s) in any direction. The ability to see, read and understand written communications: including directions, instructions and warning signs, to see and distinguish colors, to visually distinguish shapes and patterns, to accurately sense distances (depth perception), to accurately see objects and detect motion at wide angles (peripheral vision). Bending the body downward and forward by bending the spine at the waist, using the lower extremities and back muscles and moving on foot, particularly for long distances.

## **PHYSICAL MODIFIERS/DEMANDS**

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The Dictionary of Occupational Titles, Fourth Edition, Revised 1991, United States of America, Department of Labor Physical Demands Strength Rating for Ironworker is: H - Heavy Work - Exerting 50 to 100 pounds of force occasionally, and/or 25 to 50 pounds of force frequently, and/or 10 to 20 pounds of force constantly to move objects. Physical demand requirements are in excess of those for Medium Work.

## **VISUAL MODIFIERS/DEMANDS**

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The job requires considerable, sustained use of eyesight for functions such as visual inspection, reading, measuring, assembling, transcription, data analysis and operating machines or vehicles and the ability to clearly see at night or in dim light, in daylight or bright light, under glare or poor contrast.

## **ENVIRONMENTAL MODIFIERS/DEMANDS**

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The job involves: Exposure to cold working conditions during winter months and to hot working conditions during summer months, exposure to noise - workers must wear protective hearing equipment or frequently shout in order to be heard above the ambient noise level. Exposure to pollutants or allergens which can adversely affect the skin and/or the respiratory system such as gases, smoke, odors, mists, fumes, dust, chemicals, oils or solvents, exposure to hazardous working conditions including moving machinery, electricity and/or working in high places. The job requires the use of protective equipment such as hard hats, respirators, aprons, gloves, special clothing, safety shoes and safety glasses. The job involves continuous work that cannot be easily or economically interrupted for breaks except at regularly scheduled intervals or at the completion of an assignment.

I understand and can perform this job with or without reasonable accommodation.