

## RIGGER, 3473

Summary of Duties : Performs skilled work in the lifting, moving, and placing of heavy loads; erects and places cranes, derricks, gin poles, booms, and other equipment necessary for hoisting and moving heavy loads; and does related work.

Distinguishing Features : A Rigger does journey-level work in arranging and securing ropes and cables. The work requires practical judgment in moving loads of all weights under difficult conditions. Instructions received by a Rigger are limited largely to job assignments. Most of the equipment moved by Riggers is later worked on by other craft personnel. A Rigger is required to perform hazardous work in high places and with precarious footing and may be required to work in close proximity to energized high-voltage electrical circuits and equipment.

Examples of Duties : Sets up, braces, and rigs cranes, derricks, gin poles, barge derricks, booms, and other equipment used in hoisting; directs the operation of equipment in the lifting, moving, and placing of heavy mechanical or electrical equipment and machinery; builds cribs and runways and moves machinery and equipment with jacks, rollers, and block and tackle;

Makes up chokers, slings, guy lines, basket lines, snub lines, load lines, bridles, spreaders, and other special equipment of ropes and cables; laces steel blocks and sheaves; splices rope and multiple strand steel cables; sockets cables; inspects and repairs ropes, cables, slings, and chokers to insure that they are safe for the loads to be carried; inspects chains, sheaves, hooks, tongs, and buckets for evidence of faults or weakness; checks to insure that rigging equipment is secure to machinery or materials to be moved or placed.

Determines the size of cable or rope necessary for loads to be lifted; attaches slings and cables to loads; anchors supporting, bracing, and guy lines; slings, rigs, and places transformers, generators, oil switches, turbines, and other equipment; loads and unloads lumber, rock, and other materials; acts as a lead over assigned helpers; signals crane operators; greases sheaves; treats standing and running cables and load lines; repairs tow lines; makes up and repairs floating equipment fenders; may drive a truck crane; and may occasionally be assigned to other duties for training purposes to meet technological changes or emergencies.

Qualifications : A good knowledge of the principles involved in the gaining of mechanical advantages by means of ropes, cables, sheaves, and pulleys; a good knowledge of the characteristics, types, and sizes of cables and wire ropes used in rigging; a good knowledge of the techniques used in splicing and repairing ropes and cables; a good

knowledge of the various types of knots and connections employed in lifting and moving heavy equipment, machinery, and materials; a good knowledge of the methods, practices, and signals employed in the operation of cranes, hoists, barge derricks, hydraulic jacks, trucks, and tractors used in rigging; a good knowledge of the various types of materials and equipment employed in rigging and of the functions they perform; a good knowledge of the safety precautions to be exercised in the rigging and moving of heavy loads; the ability to estimate weights of materials and equipment; the ability to detect flaws and weaknesses in ropes and cables; the ability to use the various types of knots and connections employed in lifting and moving heavy equipment, machinery and materials; the ability to plan and organize the work involved in rigging, moving, and placing heavy loads; and the ability to climb and work in high and precarious places.

Four years of experience as a helper in rigging for the lifting, moving, and placing of heavy loads is required for Rigger.

License: A valid California driver's license is required.

Physical Requirements: Strength to perform average lifting up to 70 pounds and occasionally over 70 pounds; body agility and equilibrium involved in climbing, balancing, and working under precarious conditions; arm, hand and finger dexterity involved in activities such as reaching, handling and fastening; and good eyesight.

Persons with medical limitations may, with reasonable accommodations, be capable of performing the duties of some of the positions in this class. Such determination must be made on an individual basis in light of the person's limitations, the requirements of the position, and the appointing authority's ability to effect reasonable accommodations to the person's limitations.

As provided in Civil Service Commission Rule 2.5 and Section 4.55 of the Administrative Code, this specification is descriptive, explanatory and not restrictive. It is not intended to declare what all of the duties and responsibilities of any position shall be.