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## SCOPE OF WORK PROVISIONS

FOR

**WATER WELL DRILLER:**  
WATER WELL DRILLER,  
PUMP INSTALLER AND HELPER

IN

ALAMEDA, CALAVERAS, FRESNO, MADERA, MARIPOSA, MERCED,  
MONTEREY, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA,  
SANTA CRUZ, AND TUOLUMNE COUNTIES

The information in this packet is not based on a collective bargaining agreement.

Source:

Dictionary of Occupational Titles, Fourth Edition, Revised 1991

**859.362-010 WELL-DRILL OPERATOR (construction) alternate titles: rotary-drill-rig operator; water-well driller**

Sets up and operates portable drilling rig (machine and related equipment) to drill wells: Extends stabilizing jackscrews to support and level drill rig. Moves levers to control power-driven winch that raises and extends telescoping derrick. Bolts trusses to derrick and machine frame. Assembles drilling tools, using handtools or power tools. Moves levers and pedals to raise and lower drill tools and well casing into well bore. Moves levers and pedals and turns handwheels to control action of machine that drills or punches well bore and lowers casing into well. Pours water into well or pumps water or slush into well to cool drill bit and remove drillings. Listens to sounds of drilling machine and feels cable or brake to determine changes in rock formations being penetrated or variations in drilling process. Moves levers to adjust stroke and impact of cable tool drilling machine or changes drill bits of rotary drilling machine according to nature of strata encountered. Replaces drill bit with tool to collect samples of earth or rock being penetrated. Inspects core samples to determine nature of strata encountered or takes samples to laboratory for analysis. Records drilling progress and geological data. Splices worn or broken cable. Fabricates well casings and builds up worn drill bits, using oxyacetylene cutting and welding equipment. Retrieves lost equipment from bore holes, using fishing (specialized retrieval) tools and equipment. May repair drill bits, using forging furnace, hammer, and anvil. May be designated according to type drilling rig operated as Well-Drill Operator, Cable Tool (construction); Well-Drill Operator, Rotary Drill (construction). May operate well-drilling rig to restore irrigation, industrial, and domestic water wells to active production and be designated Well-Reactivator Operator (construction).

**630.684-018 PUMP INSTALLER (any industry)**

Installs and adjusts electric, gasoline, and diesel-driven pumps and blowers, using handtools, power tools, and diagrams; Cuts and threads pipes, ducts, and fittings, using handtools and power tools. Levels and bolts down pump. Connects ducts and drive couplings, and aligns them to minimize friction, using handtools and gauges. Oils and greases moving parts, and adjusts valves to prevent overloading. May recommend repair or adjustment of driving mechanism to improve operation of pumps.

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