



THE ART OF CONCRETE

Job Description for : Cement Mason and Concrete Finishers

Initial_____

- Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools. Align forms for sidewalk, curbs, or gutters; patch voids; use saws to cut contraction joints.
- Construct, erect, install, and repair forms and fixtures of wood or plywood using carpenter's hand tools and power tools.

Job Tasks:

- All tasks associated with Laborer
- Apply hardening and sealing compounds to cure surface of concrete, and waterproof or restore surface
- Apply muriatic acid to clean surface and rinse with water
- Layout and install off types of joints, i.e expansion, construction and contraction
- Have knowledge of how the wind, heat, and/or cold affect the set and finishability of the concrete throughout the entire process
- Set the forms that hold concrete to the desired pitch and depth, and align them
- Check the forms that hold the concrete to see that they are properly constructed
- Spread, level, and smooth concrete, using come-along, shovel, hand or power trowel, hand or power screed, and float
- Reading and understanding directions for using different patching materials
- Prepare damaged areas of concrete, build and secure forms for proper bonding and shape.
- Direct the placing of the concrete and supervise laborers who use shovels or specials tools to spread it
- Install embedded members in freshly poured concrete (example: anchor bolts, steel plates, angle iron)
- Apply different types of finishing techniques (example: finish broom, road tines, ADA rumble strips)
- Signal truck driver to position truck to facilitate pouring concrete, and move chute to direct concrete on forms
- Sprinkle colored marble or stone chips, powdered hardener, or coloring powder over surface to produce prescribed finish
- Determine elevations from blueprints (tenths and inches above sea level in relationship to benchmark)
- Set elevations, design and install concrete proper fall
- Figure quantity and order concrete
- Read and understand blueprints
- Use and care of level, transit and laser
- Follow established safety rules and regulations and maintain a safe and clean work environment

- Verify trueness of structure, using plumb bob and level
- Shape or cut materials to make framework or props, using hand tools and wood screws, nails, dowel pins, or glue
- Erect scaffolding and ladders for assembling structure above the ground
- Construct forms and chutes for pouring concrete
- Install and tie rebar and wire mesh
- Understand concrete add mixtures. For example, water reducer, calcium, NCA, etc.

Required Skills:

Equipment Selection—Determining the kind of tools and equipment needed to do a job

Mathematics—Using mathematics to solve problems

Active Listening—Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Active Learning—Understanding the implications of new information for both current and future problems. Have an open mind to new forming and finishing techniques.

Extreme Ownership of responsibilities - On any team, in any organization, all responsibility for success and failure rests with the leader. The leader must own everything in his or her world. There is no one else to blame. The leader must acknowledge mistakes and admit failures, take ownership of them, and develop a plan to win.

Required Abilities:

The physical demands of this position require the ability to demonstrate full range of motion with neck, arms, shoulders, hands, torso, legs and feet. Must be able to lift and carry materials and tools in excess of 50 lbs using abdominals and lower back muscles repeatedly continuously over time.

Tool Requirements: (has all of the following; including Laborer tool requirements)

16", 18" or 20" Trowel	12" Trowel
Magnesium Float	Finishing Brush
Chalk Line	Stake Hammer (4 pound minimum)
2' Level	Knee Boards
3/8" R Site Edger	Goldblatt 304 Hand Groover

Critical Performance Factors:

1. Motivated
2. Sense of urgency
3. Flexible and able to change gears at a moments notice
4. Team player-gets along with others
5. Able to fully present during work hours with no outside distractions
6. Honest and forthright character
7. Comprehends and listens efficiently
8. Organized, detailed, and clean up oriented