

Initials _____
Date _____



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POSITION DESCRIPTION

Status: Hourly
Pay ID: _____ (to be completed by payroll)
Date: 2/21/2018
Location: Grand Junction, CO

Department: MSCI
Job Title: Shotcrete Nozzle Operator
Reports to: Job Foreman/Superintendent
Approval:

General Purpose of Position: tends the hose through which wet mix concrete is pumped and then sprayed.

Essential Position Functions and Responsibilities:

1. Spraying a wet concrete mixture that is conveyed through a high pressure hose/nozzle onto a designated surface as instructed.
2. Batching, mixing, transporting, applying, finishing, testing, and cleaning-up shotcrete materials.
3. Must be familiar with the different methods of shotcrete application and the appropriate use of a method for a particular design, surface, or function.

Tasks Performed by the Position:

1. Applies cement mortar or concrete to exposed earth, masonry, wood forms, steel or other surfaces.
2. Tends hose through which concrete or cement is pumped to fill forms and crevices or to coat surfaces.
3. Moves and holds supply hose as spraying progresses, using rope sling or harness.
4. Drags screed over finished surface to cut and clean spots from surface.
5. Cuts and squares corners, using trowel.
6. Assists workers engaged in erecting and moving scaffolds and in coupling and uncoupling pipe.
7. Assists in application of reinforcement materials such as steel rods, steel mesh and/ or fibers.
8. Conduct preconstruction field trials of shotcrete production and application prior to starting production shotcreting. make field trials, and construct test panels on wood forms (if required).
9. Clean loose material, mud, rebound, and other foreign matter from all surfaces which are to receive shotcrete.
10. Submit results of shotcrete testing samples and proposed shotcrete mix design to supervisor.
11. Conduct preconstruction field trials of shotcrete production and application prior to starting the actual job.
12. Applies shotcrete mixture as approved by inspector, engineer or supervisor at a uniform rate to insure adherence of material to the treated surface with minimum rebound and maximum density.
13. Confirms mix proportions of cement, aggregate, and admixtures to obtain the specified strengths, entrained air content, and set times specified.
14. Prepare production test panels (if required).
15. Apply shotcrete as per project specifications, designs, and procedures.
16. May assist in obtaining in-place test cores from completed work.
17. Operates and/or is familiar with boom-lifts (manlift) or similar equipment.

Position Requirements:

1. **Minimum Education and Experience:** Must be familiar with concrete pumping equipment and compressors and their operations and safety procedures; Must have working knowledge of forming, grades and screeding; Should be familiar with basic concrete technology and the effects of all environmental conditions and any necessary precautions.
2. **Certification:** Shotcrete Nozzleman certification through ACI (American Concrete Institute) is preferred but not required. A documented minimum of 200 hours as a nozzleman/apprentice is required.
3. **Tools, Equipment, or Machines Required to Operate:** must own personal hand tools; must be able to operate power saws and other powered equipment; Should be familiar with shotcrete equipment, technology, mix designs, and procedures.

4. **Physical Requirements:**

- a. **General:** walk, stand, sit, use hands to finger, handle or feel objects or tools, reach with hands and arms, sometimes with equipment in hand, talk, listen, hear, read, see, lift, bend, climb in/out of equipment, climb ladders or forms.
- b. **Lifting:** 80 to 100 pounds at least one time daily or as necessary, possibly several times daily.
- c. **Exposure to Elements:** all elements of weather, including inclement weather.
- d. **Handling of Dangerous Equipment:** high velocity air-pressured hose, powered hand tools.
- e. **Risk of Assault or Injury:** working with machines that involve high velocity air pressure in addition to normal construction hazards.
- f. **Other Hazardous Working Conditions:** working at heights and during winter conditions.
- g. **Scheduled Work Hours:** Typically 6-7:00am to 3-4:00pm, ½ hours for lunch, Two 10 minute breaks, unless otherwise specified. Hours may vary and out of town work will apply..

Judgment/Decision Making: Certified ACI Nozzleman continuous quality control and for shotcrete laborers.
Occasional supervision as a Nozzleman Apprentice

Supervision Received: daily

Supervision Exercised: occasional

Supervision:

1. **Position Receives Direction From:** Job foreman and/or superintendent
2. **Position Directs:** other crewmembers.

<p>ALL EMPLOYMENT IS AT-WILL, MEANING THAT EITHER THE EMPLOYEE OR EMPLOYER MAY TERMINATE THE EMPLOYMENT RELATIONSHIP AT ANYTIME WITH OR WITHOUT CAUSE OR PRIOR NOTICE.</p>
