



City of Phoenix

MATERIALS TECHNICIAN

JOB CODE 19160

Effective Date: 12/92

DISTINGUISHING FEATURES OF THE CLASS:

The fundamental reason this classification exists is to perform materials testing engineering work of average difficulty in the Street Transportation Department. Work is performed under the direct supervision of the Materials Supervisor who checks for technical accuracy and production.

ESSENTIAL FUNCTIONS:

- Performs physical tests on concrete, asphalt, and soils in the field and laboratory;
- Employs testing apparatus such as scales, nuclear gauges, compression machines, sieves, and other laboratory equipment;
- Records test results and compares them with applicable standards;
- Assists in the operation and use of a drill rig;
- Notifies appropriate personnel when sampling indicates failure in product quality;
- Maintains regular and reliable attendance.
- Demonstrates superior seamless customer service, integrity, and commitment to innovation, efficiency, and fiscally responsible activity.

Required Knowledge, Skills and Abilities:

Knowledge of:

- Basic fundamentals of materials controls and testing.
- Basic materials used in public works construction projects.

Skill in:

- Use of basic laboratory materials testing equipment.

Ability to:

- Understand and follow oral and written instructions in the English language.
- Observe, compare or monitor data and objects to determine compliance with prescribed operating standards.
- Bend or stoop repeatedly or continually over time.



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- Move rock, sand, dirt or other material from one place to another using a shovel, rake or other tool.
- Work around testing equipment that employs a radioactive source using only normal protective equipment.
- Work in a variety of weather conditions with exposure to the outdoor elements.
- Work cooperatively with others.
- Communicate orally in the English language with customers, clients, and the public in face-to-face, one-to-one settings.
- Make precise arm-hand positioning movements and maintain static arm-hand position to use laboratory equipment.
- Perform algebraic computations.
- Establish priorities for own workload based upon such factors as need for immediate action, work objectives, work schedule, etc.
- Make decisions in normal routine situations in accordance with rules, regulations, and policies.

Additional Requirements:

- Some positions require the use of personal or City vehicles on City business. Individuals must be physically capable of operating the vehicles safely, possess a valid driver's license and have an acceptable driving record. Use of a personal vehicle for City business will be prohibited if the employee is not authorized to drive a City vehicle or if the employee does not have personal insurance coverage.
- Some positions will require the performance of other essential and marginal functions depending on work assignment, location or shift.

ACCEPTABLE EXPERIENCE AND TRAINING:

One year of experience in materials testing engineering work. Other combinations of experience and education that meet the minimum requirements may be substituted.