

**STATE OF OHIO (DAS)**

CLASSIFICATION

SPECIFICATION

**CLASSIFICATION SERIES:**

Soils &amp; Foundation

**SERIES NO.:**

5326

**MAJOR AGENCIES:**

Ohio Department of Transportation only

**EFFECTIVE DATE:**

02/18/2018

**SERIES PURPOSE:**

The purpose of the soils & foundation occupation is to operate earth drilling equipment.

At the full performance level, incumbents operate earth drilling equipment.

At the supervisory level, incumbents supervise soils & foundation technicians.

This classification series is for use in the Ohio Department of Transportation only.

**JOB TITLE**

Soils &amp; Foundation Technician

**JOB CODE**

53261

**PAY GRADE**

28

**EFFECTIVE**

01/23/1994

**CLASS CONCEPT**

The full performance level class works under general supervision & requires working knowledge of earth drilling methods in order to operate earth drilling equipment (e.g., truck mounted auger, hollow stem auger, drill rod equipment, high speed wire-line core drill, front end loader, drag line crane, backhoe &/or earthmover).

**JOB TITLE**

Soils &amp; Foundation Supervisor

**JOB CODE**

53265

**PAY GRADE**

10

**EFFECTIVE**

01/23/1994

**CLASS CONCEPT**

The supervisory level class works under general direction & requires considerable knowledge of earth drilling methods in order to supervise soils & foundation technicians & operate earth drilling equipment & bulldozers.

<u>JOB TITLE</u>	<u>JOB CODE</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY GRADE</u>
Soils & Foundation Technician	53261	06	01/23/1994	28

**JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)**

Operates earth drilling equipment (e.g., truck mounted auger, hollow stem auger, drive rod equipment, high speed wire-line core drill, front end loader, drag-line crane, backhoe &/or earth mover) in order to gather statewide soil & water samples.

Collects & evaluates samples noting specific characteristics to include color consistency &/or contents; classifies core samples based upon evaluations; calculates N-value; performs blow-count test; determines ground water level by taking measurements, calculating level & testing hypothesis by drilling to calculated level.

Performs slope inclinometer installation & tests to measure slope of ground; prepares peat & soil samples; conducts PH tests & soil analysis.

Maintains soils & foundation equipment (e.g., auger truck, core truck); cleans equipment & containers; recommends repairs & troubleshoots problems; performs safety checks on equipment to ensure proper functioning of drills.

**MAJOR WORKER CHARACTERISTICS:**

Knowledge of earth drilling safety practices. Skill in maintenance of drilling equipment\*; operation of earth drilling equipment (e.g., truck mounted auger, hollow stem auger, drag-line crane). Ability to understand system of mechanical procedures; demonstrate strength to lift 75-100 lb. augers, 75-100 lb. rods & 25 lb. wrenches; carry out detailed but basic written or oral instructions.

(\*)Developed after employment.

**MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:**

6 mos. trg. or 6 mos. exp. in operation of heavy earth drilling equipment (e.g., truck mounted earth auger, hollow stem auger, drive rod equipment, high speed wire-line core drill, front end loader, drag line crane, backhoe or earth mover) & related safety practices; valid Class "A" commercial driver's license.

-Or equivalent of Minimum Class Qualifications For Employment noted above.

**TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:**

Not applicable.

**UNUSUAL WORKING CONDITIONS:**

Works with heavy equipment on a continual basis; loss of fingers & severe back sprains not uncommon; exposed to dust, fumes, mud & all extremes of weather.

<u>JOB TITLE</u>	<u>JOB CODE</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY GRADE</u>
Soils & Foundation Supervisor	53265	EX	01/23/1994	10

**JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)**

Supervises soils & foundation technicians assigned to foundation field crews in gathering soil & water samples, ensures that field crew uses proper safety procedures, reviews sample evaluation documents to check results & identify areas where more samples are needed & checks storage of samples to ensure proper transporting methods are used.

Operates & maintains earth drilling equipment (e.g., truck mounted auger, hollow stem auger, drive rod equipment, high speed wire-line core drill, front end loader, drag-line crane, backhoe &/or earth mover); request repairs of equipment & orders supplies; reviews safety procedures with field crew.

**MAJOR WORKER CHARACTERISTICS:**

Knowledge of earth drilling safety practices; employee training & development; supervisory principles & techniques\*; construction technology\*; geology\*; geometry\*. Skill in maintenance of earth drilling equipment\*; operation of earth drilling equipment (e.g., truck mounted auger, hollow stem auger, drag-line crane); reading survey & construction plan blueprints\*. Ability to understand system of mechanical procedures; demonstrate strength to lift 75-100 lb. augers, 75-100 lb. rods & 25 lb. wrenches; establish friendly atmosphere as supervisor of work unit.

(\*)Developed after employment.

**MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:**

18 mos. trg. or 18 mos. exp. in operation of heavy earth drilling equipment (e.g., truck mounted earth auger, hollow stem core auger, drive rod equipment, high-speed wire-line core drill, front end loader, drag line crane, backhoe or earth mover) & related safety practices; 12 mos. trg. or 12 mos. exp. in employee training & development; 6 mos. trg. or 6 mos. exp. in reading survey & construction plans & in cataloging core samples; valid class "A" commercial driver's license.

-Or 12 mos. exp. as Soils & Foundation Technician, 53261.

-Or equivalent of Minimum Class Qualifications For Employment noted above.

**TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:**

Not applicable.

**UNUSUAL WORKING CONDITIONS:**

Works with heavy equipment on a continual basis; loss of fingers &/or severe back sprains not uncommon; exposed to dust, fumes, mud & all extremes of weather.