

ENGINEER 1, GRADUATE

KIND OF WORK

Beginning engineering work.

NATURE AND PURPOSE

An employee in this class is responsible for performing a variety of engineering tasks requiring the application of technical skills and knowledges obtained through formal engineering training. Though assignments are specific, considerable rotation among a series of assignments is provided. Work may involve supervision of engineering aides. General supervision is received from a professional engineer by observation, discussion or assistance while work is in progress. Ample opportunity is afforded for the exercise of independent judgment. Final results are carefully checked and reviewed.

EXAMPLES OF WORK (A position may not include all the work examples given, nor does the list include all that may be assigned.)

Acts as instrumentman on preliminary and location surveys, highway and bridge construction and mine surveys.

Acts as an inspector on responsible and specialized engineering work in the field.

Performs moderately responsible technical design work and supervises the work of others of a lower class who perform drafting or computational duties.

Conducts community, land fill disposal and facility surveys related to solid waste control.

Conducts water quality studies of streams and lakes to determine the extent and nature of pollution.

Makes field investigations of proposed water systems including water treatment plants.

Makes surveys of open pit mines and stockpiles, and inspects beneficiation plants treating state-owned ore material.

Performs work of a comparable level in other state agencies conducting a small to moderate size engineering program.

Performs related work as required.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

Knowledge of:

The fundamental principles of a given field of engineering.

Common engineering practices, methods and procedures.

Equipment and materials used in modern engineering operations.

Skill in:

The use of engineering instruments and tools.

Ability to:

Take charge of moderately difficult engineering work as part of a major project.

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Rev.: 4/1/70
Ckd.: 9/92

T.C.:
Former Title(s):