

LANCASTER COUNTY ENGINEERING AIDE II

NATURE OF WORK

This is intermediate level, technical engineering and surveying work performed primarily in the field with associated office work duties.

Work involves assisting in various phases of the design, construction, record keeping, and related work necessary to plan, construct, and record County engineering construction projects. Work responsibilities may include one or more of the following: intermediate level surveying work as a rodman or chainman, beginning level instrument operation on a survey crew and/or beginning level work in construction inspection. Direct supervision is received from either a field party chief, project engineer, or other technical or administrative superior depending on the nature of the work being performed.

EXAMPLES OF WORK PERFORMED

Perform trainee level work as instrument operator on survey party; maintain and operate levels, transits, theodolites, electronic total stations, and related equipment in performing routine location work such as staking, traverse, topographic, cross section and related engineering and land survey work.

Perform computations to determine levels, grades, elevations, survey coordinates and other land slope designations.

Work in the capacity of an experienced rodman, chainman or survey party assistant.

Review construction methods as set forth in specifications of various engineering construction projects limited in nature and scope; make daily reports on work completed; check forms set for concrete as to grade, line, and depth; check for proper drainage.

Perform beginning level inspection and staking work on a limited variety of engineering construction projects.

Install, operate and maintain the Global Positioning System (GPS) through use of GPS surveying equipment and recording of GPS data.

DESIRABLE KNOWLEDGE, ABILITIES, AND SKILLS

Knowledge of the basic principles and current procedures of engineering or land surveying.

Knowledge of personal computer systems.

Some knowledge of construction materials, standard specifications, construction methods and procedures.

Ability to perform manual work on varying terrain for extended periods of time in all types of weather.

Ability to read and interpret construction plans and details.

Ability to communicate effectively both orally and in writing.

Ability to work from general oral and written instructions and rough sketches.

Ability to establish and maintain effective working relationships with co-workers and the general public.

Skill in the use and maintenance of all instruments, tools and equipment used in the completion of work assigned.

DESIRABLE TRAINING AND EXPERIENCE

Graduation from a senior high school plus experience in office and field engineering.

MINIMUM QUALIFICATIONS

Graduation from a senior high school supplemented by course work in engineering or some experience in office and field engineering; or any equivalent combination of training and experience which provides the desirable knowledge, abilities, and skills.

NECESSARY SPECIAL REQUIREMENT

Possession of a valid driver's license when operating a vehicle is required in the performance of assigned duties.

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