

## LANCASTER COUNTY CIVIL ENGINEER II

### NATURE OF WORK

This is advanced level professional civil engineering work performed in the office or field.

Work involves responsibility for the application of professional engineering skills to projects requiring practical civil engineering experience in connection with the design, construction, inspection or maintenance of a variety of engineering projects. This class is distinguished from the Civil Engineer I in that this level requires practical civil engineering experience and the ability to work with limited supervision. Further, this class is distinguished from the Civil Engineer III in that, although practical civil engineering experience is required, registration as a Professional Engineer is not. General supervision is received from a higher-level professional with work being reviewed in the form of reports, inspection of projects and evaluation of accomplishments. Supervision may be exercised over professional and sub-professional subordinates.

### EXAMPLES OF WORK PERFORMED

Perform and may supervise the preparation of preliminary designs or reviews designs prepared by outside engineering firms.

Assist in preparing and applying for permits.

May plan, coordinate and supervise inspection and survey work for one or more major construction projects.

Assist with the analysis, design, construction, inspection and maintenance of road and bridge construction projects; performs quality testing, selection and investigation of materials involved in various construction projects to ensure compliance with Federal, State and County specifications, standards, and regulatory.

Prepare and maintain comprehensive records, reports, and documentation as they pertain to construction projects, ensuring compliance with project timelines and legal requirements.

Assist staff with problems brought forth by the public; makes recommendations.

Perform related work as required.

### DESIRABLE KNOWLEDGE, ABILITIES, AND SKILLS

Considerable knowledge of modern principles and practices of professional civil engineering.

Considerable knowledge of modern methods and techniques as applied to the construction and maintenance of a variety of engineering projects.

Considerable knowledge of land and engineering survey systems, methods, and techniques.

Considerable knowledge of the principles, practices, and techniques of computer aided drafting and design.

Ability to adapt approved engineering methods and standards to the design and construction of a variety of engineering projects.

Ability to prepare technical reports in connection with assigned projects.

Ability to establish and maintain effective working relationships with governmental officials, associates, subordinates, and the general public.

Ability to use engineering software to perform analysis of roadway and bridge design issues.

Ability to use office software to create documentation and spreadsheets for complex engineering calculations.

Skill in the use of computer aided design and drafting software.

#### MINIMUM QUALIFICATIONS

Graduation from an ABET accredited four-year college or university with major coursework in civil engineering or related field and one year of experience in progressively responsible civil engineering work or training; or any equivalent combination of training and experience that provides the desirable knowledge, abilities, and skills.

#### NECESSARY SPECIAL REQUIREMENT

Completion of the Fundamentals of Engineering (FE) exam.

Possession of a valid driver's license and the ability to be insured by the County's insurance carrier.

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