

Department: Highway
Classification: Competitive
Grade: 7

SPEC DISK C1
DOCUMENT 17

ENGINEERING TECHNICIAN

DISTINGUISHING FEATURES OF THE CLASS: The work involves responsibility for performing elementary technical office and field work on engineering projects. The work is of a repetitive and mechanical nature and is performed under the general direction of the Superintendent of Highways and the direct supervision of the Civil Engineer(s). The incumbent does related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative only)

Assists Engineer in field surveying of bridge sites, highway sections, stock-piles, etc;
Performs simple engineering computations and analyses;
Drafts drawings and sketches of site plans, highway layouts, bridge detailing, etc.;;
Performs miscellaneous calculations to determine material cost, equipment rental rates, etc.;;
Performs periodic analyses of various departmental functions.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS :

Good knowledge of the principles, practices and instruments used in engineering drafting; good knowledge of mathematics through trigonometry and its application to public works projects; good knowledge of the techniques and practices of surveying; skill in the use of engineering instruments and equipment; ability to make simple engineering computations quickly and accurately; ability to follow oral and written instructions; ability to prepare and trace drawings of a simple engineering nature with neatness and accuracy; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Either:

- (a) Graduation from a regionally accredited or New York State registered college or university with an associate degree in Engineering Technology or related field including or supplemented by course work in drafting and surveying and one year of practical experience in civil or construction engineering; or
- (b) Graduation from high school or possession of a high school equivalency diploma including courses in trigonometry and four years of experience in civil or construction engineering work; or
- (c) An equivalent combination of training and experience as defined by the limits of (a) and (b).

NOTE: Related education beyond high school can be substituted for experience on a year-to-year basis.

SPECIAL REQUIREMENT FOR ACCEPTANCE OF APPLICATIONS:

Possession of a valid New York State Operator's License.