

TRANSPORTATION ENGINEERING TECHNICIAN ENROLLEE 3

NATURE OF WORK

Under limited supervision, performs para professional engineering work or assists a professional engineer in one or more functions associated with the construction, maintenance and operation of highways and their attendant facilities and structures. The employee is enrolled in a program of work and training which leads to certification as a Transportation Engineering Technician-Senior by the Transportation Technician/Technologist Board of Advisors at BridgeValley Community and Technical College. Performs related work as required.

EXAMPLES OF WORK:

Prepares a complete, bid proposals for a complex project including time and cost estimates and procedures for bidding.

Designs complex construction projects.

May supervise materials testing and assures the quality control of the work performed.

May supervise all inspection work of a major highway construction projects.

Reviews preliminary and final construction plans in terms of traffic operation, construction, staging and signing, geometric design, final signing, signals, and pavement marking.

Coordinates surveying with photogrammetric, construction, design, and traffic operations division to assure compliance with their needs.

Prepares schedules of priorities for recurring maintenance operations and monitors compliance with established schedules.

KNOWLEDGE, SKILLS, AND ABILITIES:

Knowledge of the principles, practices, and objectives of urban transportation planning.

Ability to recognize design deficiencies, mistakes, or changed conditions in plans and specifications, and to recommend appropriate corrective action.

Ability to design and estimate costs of a complex construction project.

Ability to plan, conduct, and evaluate tests programs to categorize the characteristics and performance of materials and systems of materials.

Ability to determine priorities of highway maintenance and revise scheduling as emergencies occur.

MINIMUM QUALIFICATIONS:

TRAINING: Graduation from a standard four-year high school or the equivalent.

SUBSTITUTION: Additional experience as described below may be substituted for the required training on a year-for- year basis.

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TRANSPORTATION ENGINEERING TECHNICIAN ENROLLEE 3 (CONT'D)

MINIMUM QUALIFICATIONS: (Cont'd)

EXPERIENCE: Ten years of full-time or equivalent part-time paid technical experience associated with the design, development, or management of construction or renovation projects which involve the application of engineering principles from one of the traditional engineering disciplines.

SUBSTITUTION: An Associate Degree from a regionally accredited college or university in engineering, engineering technology or related fields may be substituted for two years of the required experience. A bachelor's degree from a regionally accredited college or university in engineering, engineering technology or related fields may be substituted for four years of the required experience.

ESTABLISHED: 10/21/93

TITLE CHANGED: 04/14/08

REVISED: 06/18/98, 01/15/99, 04/14/08, 7/27/09, 08/21/2014

EFFECTIVE: 08/21/2014