

**CLASSIFICATION:** ENGINEERING TECHNICIAN IV

**Class Code:** 4088-19

**Date Established:** 10-18-66

**Occupational Code:** 9-2-4

**Date of Last Revision:** 07-07-08

**Exempt Status:** Non-Exempt

**BASIC PURPOSE:** To perform skilled technical engineering duties, including planning and research, environmental studies, design, construction and maintenance of a variety of engineering projects.

**CHARACTERISTIC DUTIES AND RESPONSIBILITIES:**

- Supervises field studies, and the preparation of engineering plans and drawings, including tabulating and analyzing data obtained in the field.
- Supervises private contractors in the execution of various state contracts.
- Inspects the construction of engineering projects to ensure compliance with plans and specifications.
- Performs environmental studies, conducts field and laboratory tests and obtains representative samples of materials for laboratory; makes laboratory tests and records results.
- Acts as project supervisor on specialized projects or as assistant to project engineer on more generalized projects.
- Investigates proposed engineering projects sites or complaints and makes recommendations for change as required.
- Maintains and correlates statistical data and prepares reports relating to designated engineering projects.
- Evaluates work performance of subordinate technical engineering staff and monitors compliance with established work procedures.

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**DISTINGUISHING FACTORS:**

**Skill:** Requires skill in recommending routine changes in standardized operating procedures OR in retrieving, compiling and reporting data according to established procedures OR in operating complex machines.

**Knowledge:** Requires knowledge of business practices and procedures or technical training in a craft or trade, including working from detailed instructions, to apply knowledge in a variety of practical situations.

**Impact:** Requires responsibility for achieving direct service objectives by assessing agency service needs and making preliminary recommendations for the development of alternative short-term program policies or procedures. Errors at this level result in incomplete assessments or misleading recommendations causing a disruption of agency programs or policies.

**Supervision:** Requires direct supervision of other employees doing work which is related or similar to the supervisor, including scheduling work, recommending leave, reviewing work for accuracy, performance appraisal, or interviewing applicants for position vacancies.

**Working Conditions:** Requires performing regular job functions in an environment which includes exposure to continuous physical elements or a number of disagreeable working conditions with frequent exposure to minor injuries or health hazards.

**Physical Demands:** Requires medium work, including continuous strenuous activities such as frequent reaching, bending, or lifting as well as performing work activities which require fine manual dexterity or coordination in operating machines or equipment.

**Communication:** Requires explaining facts, interpreting situations, or advising individuals of alternative or appropriate courses of action. This level also requires interviewing or eliciting information from state employees or members of the general public.

**Complexity:** Requires a combination of job functions to establish facts, to draw daily operational conclusions, or to solve practical problems. This level also requires providing a variety of alternative solutions where only limited standardization exists.

**Independent Action:** Requires objective assessment in analyzing and developing new work methods and procedures subject to periodic review and in making decisions according to established technical, professional or administrative standards.

#### **MINIMUM QUALIFICATIONS:**

##### MINIMUM QUALIFICATIONS - DEPARTMENT OF TRANSPORTATION and DEPARTMENT OF ADMINISTRATIVE SERVICES, BUREAU OF PUBLIC WORKS DESIGN AND CONSTRUCTION:

**Education:** Associate's degree from a recognized college or technical institute with a major study in engineering, landscape, architecture, forestry, horticulture, environmental studies, agronomy, geology, soil science or earth science. Each additional year of approved formal education may be substituted for one year of required work experience.

**Experience:** Five years' experience as an Engineering Aide or Technician, two years of which shall have been at a level equivalent to Engineering Technician III. Each additional year of approved work experience may be substituted for one year of required formal education.

##### MINIMUM QUALIFICATIONS - DEPARTMENT OF ENVIRONMENTAL SERVICES:

**Education:** Associate's degree from a recognized college or technical institute with a major study in engineering, hydrology, geology, earth sciences, or environmental studies. Each additional year of approved formal education may be substituted for one year of required work experience.

**Experience:** Five years' engineering experience, two years of which shall have been at a level equivalent to Engineering Technician III. Each additional year of approved work experience may be substituted for one year of required formal education.

**License/Certification:** Valid driver's license and access to transportation if required for performing engineering field work. Any additional license requirement must be stated on the supplemental job description and approved by the Division of Personnel prior to posting at the agency level.

**RECOMMENDED WORK TRAITS:** Extensive knowledge of engineering techniques at a pre-professional level, requiring possession of sufficient knowledge in trigonometry and algebra in order to perform complicated mathematical computations. Extensive knowledge of environmental issues and regulations, material testing and designing of highways. Skill in the use of surveying, drafting and computing instruments and testing equipment. Ability to make complex drawings and tracings and technical mathematical computations. Ability to perform difficult laboratory tests, assume inspectional responsibilities in the field, train and supervise subordinate personnel and maintain accurate records. Must be willing to maintain appearance appropriate to assigned duties and responsibilities as determined by the agency appointing authority.

**DISCLAIMER STATEMENT:** This class specification is descriptive of general duties and is not intended to list every specific function of this class title.