

CLASS SPECIFICATION FOR  
**Electrical Engineer**

**GENERAL STATEMENT OF DUTIES:** Performs professional electrical engineering duties in the office and in the field; does related work as required.

**DISTINGUISHING FEATURES OF THE CLASS:** This work involves the application of professional electrical engineering knowledge and skills in the design, inspection and construction of various projects. The incumbent examines work plans, specifications and engineering calculations to ensure compliance with applicable codes, and/or designs, inspects and supervises construction of various electrical engineering projects. May supervise Electrical/Elevator Inspectors and Senior Electrical/Elevator Inspector. The employee coordinates inspections and reviews with other sections within the Building Inspections Office and with other County agencies as required. General supervision is received from and difficult problems are reviewed by and discussed with the Deputy Building Official.

**EXAMPLES OF WORK** (illustrative only):

- Examines plans and checks designs of new buildings and other structures to determine compliance with the Virginia Uniform State Building Code and other County building ordinances;
- Inspects commercial buildings and other structures to determine compliance with the NEC and other County ordinances;
- Assists in repairing code revisions for submission to the Building Code Review Board;
- May verify the estimated cost of jobs, including labor, materials and equipment, to determine whether or not fee for permit is accurate before issuance of permit;
- Instructs and trains subordinate inspectors and plans-review personnel;
- Advises architects, engineers, contractors and inspectors of revisions in plans, alterations, or repairs essential for compliance with electrical code regulations;
- Plans, designs, draws, and/or examines specifications for electrical installations and improvements;
- Keeps official project records and reports;
- Performs related work as assigned.

**REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:** Considerable knowledge of the principles and practices of electrical engineering as apply to the enforcement of the Virginia Uniform State Building Code; ability to establish and maintain effective working relationships with other employees and with the public; ability to effectively supervise the work of inspection, technical and professional personnel; ability to communicate effectively orally and in writing; good professional electrical engineering judgment; ability to translate the principles of electrical engineering into sound use and practice.

**MINIMUM EDUCATION AND TRAINING:** Possession of a bachelor's degree in electrical engineering and one (1) year of professional electrical engineering experience; OR any equivalent combination of experience and training which provides the required knowledge, skills and abilities.

**ADDITIONAL REQUIREMENTS:** Requires certification in accordance with the State Department of Housing and Community Development within three (3) years of date of employment; and the employee shall participate in additional/ongoing training as mandated by the Department of Housing and Community Development.