

CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 5334 **TITLE:** SENIOR ELECTRICAL INSPECTOR **GRADE:** S-18

DEFINITION:

Under general supervision, performs a variety of difficult and specialized electrical and cable inspections involving the exercise of independent judgment and initiative; provides technical advice to the general public; and performs related work as required.

DISTINGUISHING CHARACTERISTICS OF THE CLASS:

This class is distinguished from the Electrical Inspector class by the ability to independently conduct specialized electrical and cable inspections. Both classes require knowledge, skills, and abilities that must be acquired through work experience as a journey-level electrician.

ILLUSTRATIVE DUTIES:

Inspects building construction to ensure that installation of building electrical systems, supply wiring, associated fixtures, receptacles, and controls are in compliance with the Virginia Uniform Statewide Building Code, National Electrical Code, Fairfax County building regulations and codes, safe construction practices, and approved plans;

Uses electrical testing equipment to test for correct voltage, circuit breakers, electrical shorts, and proper grounding of equipment, fixtures, and controls;

Inspects cable television (TV) construction in progress to ensure work performed is in compliance with cable contract plans and specifications and to ensure that federal, state, and County construction and safety requirements are being met;

Uses cable testing equipment, such as signal analysis meters, tone generators, spectrum analyzers, and utility depth locators;

Enters the results of each inspection conducted into a hand-held computer terminal;

If an inspection reveals work that is not approved, identifies the sections of the regulations being violated, issues written violation notices to the developer, and takes necessary action to ensure violations are corrected (e.g., testifies to facts in court, recommends "shut down" of the project, and/or assists in securing arrest warrants);

Inspects developers' field operations for compliance with the Virginia Occupational Safety and Health Act (VOSHA), and resolves all discrepancies through cooperation with the developer (or, if the developer refuses to correct the deficiency, through notification of the violation to the Virginia Department of Labor and Industry for its action);

Prior to issuance of a permit, examines and interprets plans for installation of primary electrical supply systems in all types of buildings, recommending changes in wire size or electrical design when necessary;

Reviews requests from developers for inspections, and schedules inspections;

Investigates citizen complaints relating to cable TV system construction, property restoration, use of privately-granted easements, and construction of single-family homes/commercial buildings and the two-year follow-on warranty period; evaluates their validity; reports investigative findings; and recommends corrective action when necessary;

Meets with homeowners, developers, engineers, contractors and interested citizens to provide information and answer questions about applicability of County development regulations to field construction;

Interprets applicable electrical codes;
Attends meetings and conferences;
Prepares reports and composes correspondence;
Coordinates final approvals before occupancy with other agencies to ensure that all applicable requirements are met;
Acts as section supervisor in the absence of his or her superior.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:

Working knowledge of the Virginia Uniform Statewide Building Code, National Electrical Code, and other applicable codes and ordinances enforced by the Department of Environmental Management;
Working knowledge of the Virginia Occupational Safety and Health Act (VOSHA);
Knowledge of, and ability to apply, electrical principles, practices, materials, methods, and the tools used in electrical installation and repair;
Knowledge of federal, state, and County construction regulations pertaining to cable TV;
Skill in the application of methods and techniques used to test electrical wiring with testing equipment (e.g., ohmmeters, voltmeters, ground testing equipment);
Skill in the use of equipment used to locate and test TV lines, such as utility depth locators, signal analysis meters, tone generators, spectrum analyzers, and cable converters;
Skill in applying the procedures and techniques used in the installation of electrical distribution systems and receptacles, in the grounding of equipment and services, and in the sizing and protection of conductors;
Ability to read, interpret, and follow wiring diagrams, building plans, blueprints, and engineering specifications for electrical installation;
Ability to use sound judgment in making independent decisions;
Ability to prepare clear and factual reports;
Ability to use hand-held computers to enter results of inspections conducted;
Ability to work with people and obtain their cooperation, even in difficult situations.

EMPLOYMENT STANDARDS:

Any combination of education, experience, and training equivalent to the following:
High school graduation or a G.E.D. issued by a state department of education; PLUS
One year of experience as an electrical inspector and/or as a supervisor of journey-level electricians; AND
Two years of experience as a journey-level electrician.

CERTIFICATES AND LICENSES REQUIRED:

Certification by the Virginia Department of Housing and Community Development as an Electrical Inspector General within one year of employment.
Possession of a valid Motor Vehicle Driver's License.

SPECIAL REQUIREMENT:

Color perception adequate to distinguish colors of electrical wiring and utility locate marks.

REGRADED: August 23, 2010
REVISED: April 25, 1997