

**CLASS SPECIFICATION**  
**County of Fairfax, Virginia**

**CLASS CODE:** 6280

**TITLE:** ELECTRICIAN II

**GRADE:** S-20

**DEFINITION:**

Under general direction, serves as a lead master-level electrician, performing and assisting other electricians in diagnosing and repairing complex, unusual and/or very difficult electrical problems; and performs related work as required.

**DISTINGUISHING CHARACTERISTICS OF THE CLASS:**

The Electrician II class is distinguished from the Electrician I class in that positions assigned to the Electrician II class are expected to perform complex journeyman level tasks and lead the work of Electrician I's who perform more routine tasks.

**ILLUSTRATIVE DUTIES:**

Performs preventive maintenance and repairs to main switchboards, panel boards, etc. with voltage up to 600 volts ac and main bus amperages up to 6000 while maintaining the integrity of the three phase system;

Troubleshoots most complex electrical problems;

Installs circuits for power, lighting and equipment using various wiring methods (i.e. rigid metal conduits, armored cables, etc.);

Troubleshoots/repairs main and branch circuit breakers, etc;

Installs and disconnects wiring devices such as switches, convenience receptacles and dedicated receptacles;

Diagnoses and troubleshoots live electrical circuits where a blue print or schematic may not be available;

Diagnoses problems and repairs/replaces failed lighting systems and controls as well as electromagnetic and electronic ballast's on lighting equipment;

Operates assigned service vehicle, maintains inventory of spare parts and initiates procurement of replacement supplies and equipment as necessary;

Makes cost and material estimates;

Collects data for preventive maintenance system and maintains activity logs;

Responds to routine and emergency service calls after normal working hours;

Follows and enforces safety regulations and procedures;

May serve as a team leader to Electrician I's and/or Maintenance Trade Helpers providing guidance/direction and instruction, appraising performance, serving on selection panels and inspecting/approving the work performed by team members.

**REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:**

Thorough knowledge of the standards, practices and equipment of the electrical trade;

Thorough knowledge of applicable county, state and national electrical, NFPA and safety codes;

Knowledge of safety regulations and procedures as well as common hazards associated with working with electricity;  
Ability to plan and perform work of the trade at the journeyman-level;  
Ability to follow written and oral instructions as well as diagrams, schematics, blue prints and manufacturer's manuals;  
Ability to estimate time and material needs;  
Ability to use, where applicable, hand held computers;  
Ability to maintain good interpersonal relationships;  
Ability to train/instruct and provide guidance/direction to Electrician I's and Maintenance Trade Helpers;  
Ability to perform duties in inclement weather, climb ladders and scaffolds and routinely work in dark, hot, cold or damp working environments in tiring, physically demanding positions for long periods of time.

**EMPLOYMENT STANDARDS:**

Any combination of education, experience, and training equivalent to the following:  
High school diploma or G.E.D. issued by a state department of education; PLUS  
Two year electrical technical degree; OR  
Completion of a apprentice-level electrical vocational training program;  
PLUS  
Three years of progressively responsible experience as a journeyman electrician.

**CERTIFICATES AND LICENSES REQUIRED:**

Valid state motor vehicle operator's license;  
Valid journeyman electrical certification from the state of Virginia.

REGRADED:	March 6, 2009
REVISED/REGRADED:	June 2, 2006
REVISED:	March, 2006
REVISED:	August 3, 1981