

SNOHOMISH COUNTY JOB DESCRIPTION

ELECTRICIAN III

Spec No. 7030

BASIC FUNCTION

To support the Solid Waste Division in performing electronic and electrical work at all Solid Waste facilities.

STATEMENT OF ESSENTIAL JOB DUTIES

1. Installs, maintains, troubleshoots, and repairs all electrical systems and equipment including high voltage systems (motor control centers; hydraulic, water, and air handling motors; emergency generators; ignition systems; lighting; etc.), low voltage systems (digital and analog I/O; receptacles; fire; security; HVAC; lighting; etc.), and communication systems (Ethernet, telephony, Wi-Fi, radio, etc.).
2. Installs, maintains, troubleshoots, and repairs advanced electrical systems including industrial control system (ICS), supervisory control and data acquisition (SCADA), and programmable logical controller (PLC).
3. Designs, codes, tests, troubleshoots, and adjusts PLC software to ensure safe, efficient operation of equipment.
4. Completes and maintains electrical records, including permits, work orders, and as-builts.
5. Participates in the design and construction of advanced electrical and electronic systems including specifications, plans, and standard operating procedures (SOP). Reviews electrical and electronic systems designed by consultants for technical adequacy; makes periodic-inspection of contractor's work to ensure installations are constructed according to plans and specifications.
6. Interprets blueprints, sketches, and other instructions; may draw or sketch work to be performed.
7. Performs other electrical preventative maintenance, installation and repair duties as required.
8. Procures equipment, materials, parts and supplies; conducts research into the technical aspects of machinery and equipment. Provides purchase request information and justification as needed; reviews purchase specifications as required.
9. Installs, tests, terminates and repairs fiber optic cable and auxiliary components.

STATEMENT OF OTHER JOB DUTIES

10. Performs other duties as required.

SNOHOMISH COUNTY JOB DESCRIPTION

ELECTRICIAN III

Spec No. 7030

MINIMUM QUALIFICATIONS

Technical training in electrical systems; and six (6) years of experience as a journey level electrician; which includes three (3) years of experience in the installation, maintenance and repair of advanced electrical systems, including the electrical, electronic, and mechanical components of ICS, SCADA, and PLC; OR, any equivalent combination of education and/or experience which provides the required knowledge and abilities. Must pass job related tests.

SPECIAL REQUIREMENTS

A valid Washington State Department of Labor Journey Level Electrician License (EL01) is required.

A valid Washington State Driver's License is required.

A job offer will be conditioned on satisfactory results of a driver's license abstract.

Possession or ability to obtain a valid First Aid/CPR Card is required within six (6) months of employment.

Possession or ability to obtain forty (40) hour HAZWOPER certification within six (6) months of employment. Must maintain valid forty (40) hour HAZWOPER training certification while in position.

Possession or ability to obtain confined space entry certification within six (6) months of employment. Must maintain valid confined space entry certification while in position.

Employment will be conditioned on satisfactory results of a post-offer drug screen test, a medical examination, and a Physical Capacities Evaluation performed by a qualified healthcare professional selected by Snohomish County.

PROMOTIONAL REQUIREMENTS

Electrician II level employees may be promoted to the Electrician III level if they meet the following requirements:

- Twenty-four (24) months of satisfactory service at the Electrician II level;
- Completion of at least twenty-four (24) clock hours of supervisory-approved training while at the Electrician II level, including classes in programmable logic controller (PLC) hardware and software; and
- Passing score on an advancement test.

SNOHOMISH COUNTY JOB DESCRIPTION

ELECTRICIAN III

Spec No. 7030

KNOWLEDGE AND ABILITIES

Knowledge of:

- tools, materials, methods and techniques associated with the electrical trade
- relevant electrical codes
- safety rules and regulations
- defensive driving principles
- hazards associated with the work
- personal computer techniques and procedures
- basic first aid methods and procedures

Ability to:

- perform all phases of electrical work
- diagnose and troubleshoot defects in all electrical systems and equipment and perform needed repairs
- read, understand, and follow safety rules and regulations
- perform strenuous physical work
- use a wide variety of hand and power tools skillfully and safely under a variety of working conditions
- read, interpret and apply relevant codes
- understand and follow oral and written instructions
- maintain accurate and complete written records and prepare reports as required
- communicate effectively and professionally both orally and in writing
- read, interpret and work from a variety of blueprints, drawings, one line diagrams, sketches, and work orders
- establish and maintain effective working relationships with superiors, subordinates, and co-workers
- deal courteously and tactfully with the general public
- make independent decision under pressure

PHYSICAL REQUIREMENTS

Lifts up to fifty (50) pounds on a daily basis. Must be able to work at heights up to forty five (45) feet when climbing ladders and working in aerial lift buckets. Required to crawl, twist, bend, squat when working on electrical systems and getting in and out of man lift buckets. Must be able to see when reading plans and specifications. Must be able to hear industrial and vehicle audible alarms. Physical dexterity is required to handle small electronic components and to splice wire.

SNOHOMISH COUNTY JOB DESCRIPTION

ELECTRICIAN III

Spec No. 7030

SUPERVISION

The work is performed under the supervision of a Solid Waste Operations Supervisor or Electrician – Lead as assigned and requires considerable independent judgment by the employee. Work is reviewed through status reports, staff meetings, and results obtained which may be spot checked for technical adequacy, and conformance with work orders, plans and specifications.

WORKING CONDITIONS

The work is performed indoors and outdoors in all types of weather at work sites throughout Snohomish County. Walking over rough terrain and working in confined spaces with hazardous gases and obnoxious odors present is required. Employees will wear County-supplied safety gear as required. Operation of a motor vehicle on public roads is required.

Work in this class involves rotating shift assignments and requires employees to work evenings, weekends, holidays, and overtime as required.

Snohomish County is an Equal Employment Opportunity (EEO) employer.
Accommodations for individuals with disabilities are provided upon request.

[EEO policy and ADA notice](#)

Class Established: April 2017
EEO Category: 7 – Skilled Craft Workers
Pay Grade: 241 - Classified Pay Plan
Workers Comp: 1501 – Hazardous