

# ELECTRONICS SPECIALIST

Job Code	Pay Grade
13780	CL14

## Nature of Work

This is skilled technical work in the installation, modification, maintenance and repair of electric power systems, instrumentation, equipment and control systems. The work is primarily characterized by responsibility for complex computer based electronically controlled instrumentation systems, however, other advanced responsibility for electrical power systems and mechanical assignments may be included with this work. Employees in this class perform specialized work operating and troubleshooting assigned equipment. Duties are performed independently and employees are expected to serve as the department authority on electronics related matters. Work in this classification requires extensive electronic board diagnostics and repair, requiring broad electronic theory applications. Duties may include supervision over other technical employees.

## Minimum Qualifications Requirements

- 3 years of highly automated computer based electronics instrumentation installation, maintenance, and repair experience; or
- Associate's degree or two year technical degree in directly related coursework plus 1 year of highly automated computer based electronics instrumentation installation, maintenance, and repair; or
- An equivalent combination of education, training, and/or experience.

## Appointing Authority May Also Require

- Florida Driver's License or Florida Commercial Driver's License and endorsement, if any.
- Assignment to work a variety of work schedules including compulsory work periods in special, emergency, and/or disaster situations.
- Special skilled trade licenses, courses, and training to support job specific work requirements.
- Other highly desirable knowledge, skills, abilities and credentials relevant to a position.

## Illustrative Tasks (These are examples and are not all inclusive.)

- Performs installation, maintenance, modification, calibration and repair of electronic and electrical instrumentation, equipment and control systems; exercises lead responsibility over others on project basis or as assigned.
- Performs installation, maintenance, modification, calibration and repair complex electrical power systems, related instrumentation, equipment and control systems; and may exercise lead responsibility over other workers.
- Detects causes of electronic and electrical failures, interprets and ensures compliance with established codes, calculates data necessary for wiring instrument systems and requisitions supplies and materials needed to complete tasks.
- Detects causes of electronic and electrical failures, interprets and ensures compliance with established codes, calculates data necessary for wiring electrical equipment, instrument systems.
- May supervise technical employees engaged in similar work by training, conducting performance reviews, serving as project leader, etc.
- Inspects instrumentation and equipment to determine operating conditions and needed repairs and modifications.
- Performs bench work repairs and overhauls and rebuilds complex electronic or electrical equipment.
- Performs emergency and routine field servicing of complex equipment and performs tests on parts, modules or assemblies.
- Arranges for repairs and serves as technical review specialist for work completed by outside vendors performing work on county operations.
- May perform both low voltage and high voltage tasks depending on area of assignment.
- Performs related work as assigned or required.

## ELECTRONICS SPECIALIST (continued)

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### Knowledge, Skills, and Abilities

- Knowledge of standard tools, methods, theories, materials and practices of the electronic and electrical trades and local and state electrical codes.
- Knowledge of electronic theory and equipment and electronic maintenance and repair practices and procedures.
- Knowledge of operating characteristics, capabilities and limitations of computer equipment and routine computer operations and terminology.
- Skill in the use of tools and equipment used in the electronic and electrical trades.
- Skill in troubleshooting automated systems and isolating breakdown causes.
- Ability to relate technical information in a manner understandable to subordinates, superiors and members of the public.
- Ability to conduct tests, analyze results, take corrective steps and apply knowledge of electronic theory and troubleshooting procedures.
- Ability to interpret and work from technical sketches and blueprints and locate, define and repair defects in equipment.
- Ability to use a computer to complete assignments, track work, prepare communications, reports, etc.

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Revised	EEOC Code	Overtime Code
3/07	Technicians	Classified