

COMPUTER TECHNICIAN

DEFINITION

Installs, maintains, repairs, modifies and tests a variety of computer and related equipment.

TYPICAL DUTIES

- Installs, maintains, repairs, and modifies a variety of computer and related equipment including but not limited to computers, disk drives, printers, monitors, keyboards, modems, network cards.
- Makes regular performance checks and verifies proper and safe operation of repaired equipment by using diagnostic programs or special utilities to assess the operational level of the systems.
- Operates test equipment needed to detect malfunctions of computer and related equipment.
- Reads and interprets equipment schematics, logic diagrams, and blueprints.
- Runs network cables and installs related Local Area Network (LAN) components.
- Adapts new or existing equipment and software for integration into current LANs.
- Studies technical specifications and related materials to acquire knowledge of the operations and techniques used in the repair of new and existing computer and related equipment.
- Acts as liaison to outside field service contractors.
- Orders supplies, parts and tools needed for repairs and maintains a parts inventory.
- Maintains repair and installation records.
- Makes recommendations on the replacement and purchase of equipment.
- Performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS

A **Computer Technician** applies a sound knowledge and practice of general electronic theory and fundamentals and the specialized theory and principles related to the maintenance, modification, repair, and testing of computers and related equipment.

An **Electronics Technician** installs, maintains, repairs, modifies and tests a wide variety of electronic equipment such as radio, video, television, audio-visual equipment, public address systems and electronic instructional aids.

SUPERVISION

General supervision is received from a classified supervisor. No supervision is exercised.

CLASS QUALIFICATIONS

Knowledge of:

Fundamentals of computer systems and Local Area Networks (LANs)
Computer and related equipment
Basics of operating systems and network operating systems, such as MS-DOS, Novell Netware, Windows (different versions), Apple OS, Linux, and Unix
Test equipment used for detecting malfunctions of computer and related equipment
Troubleshooting techniques used in detecting malfunctions of computer and related equipment
Principles and theories of electronic circuitry, integrated circuits, and semi-conductors
Current computer technology and trends
Computer based operational and logical systems
Computer input/output and storage principles and devices
Tools, material, and parts needed for computer equipment repair
Basics of networking hardware including cabling methods and techniques, token ring and Ethernet interface operation, hubs, switches, routers
Safety precautions, practices, and procedures related to computers and related equipment
Principles of recordkeeping
Spelling, punctuation, and English usage

Ability to:

Install, maintain, repair, and safely operate a variety of computer and related equipment
Test faulty equipment and locate causes of computer and related equipment malfunctions or failures
Repair electronic and electromechanical components
Operate electronic test equipment
Read and interpret manufacturer's manuals including schematics, flow charts, and logic diagrams
Keep detailed and precise records
Work independently
Work effectively and cooperatively with District staff, instructional staff, contractors and students
Learn the characteristic of new types or models of computer equipment
Learn general and specialized software applications

ENTRANCE QUALIFICATIONS

Education and Experience:

- A. An associate degree or its equivalent from a recognized college or university with a major in computer science, computer information technology, computer engineering, or a closely related field **AND** two years of recent full-time paid experience maintaining and repairing computer equipment.

OR

Education and Experience (Cont.):

- B. Graduation from high school or its equivalent **AND** successful completion of a computer manufacturer's certification training program or its equivalent in computer or related equipment repair, maintenance, and installation **AND** three years of recent full-time, paid experience maintaining and repairing computer equipment.

OR

- C. Graduation from high school or its equivalent **AND** four years of recent full-time, paid experience maintaining and repairing computer equipment.

OR

- D. Any equivalent combination of A., B., and C. above.

Special: A+ Certification issued by the Computing Technology Industry Association is desirable.