

Specification for Class of

ELECTRONIC TECHNICIAN 2

**Abolished Effective July 1, 2007**

Definition: Performs skilled journey-level work in the operation, maintenance, modification, troubleshooting, adjusting, testing, repair and installation of electronic air monitoring systems and devices or other scientific monitoring and measuring equipment.

Typical Work

Installs, maintains, troubleshoots, repairs (replaces integrated circuits, transistors, capacitors, resistors, etc.) and operates air monitoring equipment used in the detection of pollutants; may assist in these activities;

Fabricates and tests air flow systems and electronic circuitry in accordance with plans and diagrams;

Checks, adjusts, calibrates and repairs a wide variety of recording and indicating devices and equipment, such as ultraviolet photometric, ultraviolet fluorescence, digital controlled nondispersive infrared chemiluminescent, and particulate samplers, strip chart recorders and telemetry system components; may assist in these functions;

Reads, records and tabulates chart and instrument data with understanding of zero drift and abnormal or erratic fluctuations;

Keeps records on air monitoring equipment and supplies used; orders supplies as needed;

Prepares reports on maintenance methods and instrument operation;

Maintains and operates electronic test equipment, including digital multimeters, oscilloscopes, signal generators, frequency oscillators, electronic counters and power supplies;

Uses and maintains air flow systems, including manometers, critical orifices, and flowmeters;

Performs other specific duties as assigned.

Knowledge and Abilities

Knowledge of: equipment, methods and tools used in operation, installation, maintenance, repair and modification of monitoring and measuring instruments; operating principles of electronic monitoring and optical instrumentation, principles and practices of electronics; elementary principles of physics, mathematics and chemistry as related to ambient monitoring equipment; methods, tools and test instruments used in operation, calibration and repair of electronic ambient monitoring instruments; safety precautions; record keeping and report preparation.

Ability to: recognize and repair defects in electronic systems and equipment; read and understand instructional manuals, drawings, schematic diagrams, plans and sketches using electronic symbols; fabricate and design equipment and electronic circuitry and flow systems.

#### Minimum Qualifications

Graduation from high school or GED equivalent and three years of experience in installation, maintenance, repair and use of industrial or scientific electronic measurement equipment.

Full-time training in electrical engineering, electronics, physics, chemistry or closely related field may be substituted, year for year, for a maximum of two years of the required experience.

New class

Effective August 1, 1967

General Revision

Effective October 1, 1968

Revised November 9, 1984

Revises definition, minimum qualifications, general revision, title change (formerly Instrument Technician 1)