

**Class Code: 5014**  
**Revised: 4/25/90**  
**Reviewed: 9/21/15**

## **PLANT INSTRUMENT MECHANIC I**

### **PURPOSE AND NATURE OF WORK**

This is technical electronic, electrical, and mechanical work involved in testing, adjusting, repairing, and performing preventative maintenance on control system instruments and devices. Employees are responsible for participating in and assisting in keeping records of work performed during regularly scheduled maintenance programs. Incumbents work around potentially hazardous equipment and may be subject to 24-hour call in emergency situations. Direction may be received from a Plant Instrument Mechanic II.

**ILLUSTRATIVE EXAMPLES OF WORK** (Note: These examples are intended only to illustrate the various types of work performed by incumbents in this class. All of the duties performed by any one incumbent may not be listed, nor does any incumbent necessarily perform all of these duties.)

Inspects, maintains, adjusts, and makes minor repairs to control systems governing the production and distribution of water, electricity, etc.; assists with major repairs and installations. Trouble shoots, repairs, and maintains computerized automatic alarm systems. Assists in drawing and interpreting electrical, electronic, and mechanical schematics and blueprints. Tests instruments and control panel wiring that have been installed, repaired, or replaced to ensure conformance to standard specifications.

Performs related work as required.

### **NECESSARY KNOWLEDGES, ABILITIES, AND SKILLS**

Knowledge of the electrical, electronic, and mechanical principles governing the functioning of control systems and instruments.

Knowledge of the methods, tools, and equipment used to test, maintain, and repair control systems and instruments in accordance with prescribed standards.

Knowledge of the interrelation of the various components which make up the control system in the area of work knowledge.

Knowledge of the occupational hazards and safety precautions of the trade.

Ability to understand and interpret schematics, diagrams, and blue prints used in testing and maintaining control systems and instruments in accordance with prescribed standards.

Ability to carry out scheduled programs of inspection and maintenance, and to keep schematic records of work performed on control systems and instruments.

Ability to establish and maintain effective working relationships with superiors and other employees.

Skill in the use of tools and precision instruments necessary to perform assigned tasks.

### **DESIRABLE TRAINING AND EXPERIENCE**

Graduation from high school, supplemented by technical training in the field of electrical, electronic, and mechanical control instruments and systems and experience working as an instrument mechanic; or any equivalent combination of training and experience.