

**BOARD OF REGENTS  
STATE OF IOWA  
REGENT MERIT SYSTEM**

**Class Title:** Systems Control Technician

**Class Code:** 5092

**Pay Grade:** 412

**GENERAL CLASS DESCRIPTION:**

Under general supervision, applies knowledge and skills to install, maintain, calibrate and repair electronic control systems and other electrical or pneumatic devices.

**CHARACTERISTIC DUTIES AND RESPONSIBILITIES:**

1. Installs, repairs, replaces and calibrates complex control system equipment and support systems, such as computerized pneumatic tube systems and the various power distribution monitoring systems.
2. Locates problems in systems by monitoring the functioning, interpreting computer readings and conducting performance tests over a period of time of mechanical, pneumatic, electrical and/or electronic systems.
3. Monitors complex control systems for operation data, for appropriate quality assurance purposes, or for system modification purposes through manipulation of software and for operator training and direction.
4. Serves as technical consultant in the area of computer-controlled systems for various maintenance shops.
5. Reviews construction plans and specifications of outside architects and engineers.
6. Defines complex building systems development plans and develops any necessary justifications to support these plans.
7. May initiate designs, bid documents, and purchase orders for supplies and services necessary to develop and maintain complex building equipment and support systems.
8. Meets with engineers, shop managers, contractors and vendors relative to the complex building management systems and plans.
9. Other duties as assigned by appropriate department or administrative personnel.

The tasks listed under the heading of Characteristic Duties and Responsibilities are examples of the variety and general nature of duties performed by employees in positions allocated in the class. The list is descriptive only and should be used for no other purpose. It is not intended that any position include every duty listed nor is it intended that related duties cannot be required.

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**KNOWLEDGE, SKILLS, AND ABILITIES:**

1. Ability to read and interpret blueprints and electrical, electronic and/or pneumatic schematics and engineering concept statements.
2. Ability to effectively communicate orally and in writing and to execute oral and written instructions.
3. Knowledge of hand tools and test equipment such as multimeters, oscilloscopes, and signal generators.
4. Knowledge of electrical control and electronic theory.
5. Ability to lift up to 80 pounds.
6. Knowledge of applicable electrical codes.
7. Ability to work in a variety of environments including high places, tight places, poorly lighted with exposure to dirt, dust and fumes.
8. Knowledge of electrical, electronic, and/or pneumatic control systems in order to diagnose and safely repair.
9. Ability to perform mathematical functions.
10. Ability to map and track wires through color or different identifier.

**MINIMUM ELIGIBILITY REQUIREMENTS:**

Six years of experience in electrical or control trade, including apprenticeship; or graduation from a two-year resident instrumentation and controls program.

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**REVISION EFFECTIVE:**

**June 1, 1999**