



## Town of Oro Valley Classification Description

Title: **WATER CONTROL SYSTEM SUPERVISOR**

Job Code: 3544

FLSA Status: Exempt

Department: Water Utility

Salary Grade: 117

### **POSITION SUMMARY:**

Responsible for the Supervisory Control and Data Acquisition (SCADA) system for the Water Utility by performing highly complex technical work and supervising assigned technical personnel involved in the development, installation, programming, upgrade, maintenance, security and support which consist of servers, radio network, Master Terminal Units (MTUs), Remote Telemetry Units (RTUs), and Programmable Logic Controllers (PLCs).

### **ESSENTIAL JOB FUNCTIONS:**

- A. Serves as a primary point of contact and liaison with the Information Technology Department; developing standards and specifications for SCADA (ex: standards for wiring, equipment, system security, and routing protocol).
- B. Reviews proposals and oversees projects to ensure technical and departmental requirements are met.
- C. Initiates or participates in network and data systems analysis studies; forecasting project costs and helping with budgeting for SCADA, network, and related automation equipment.
- D. Maintains, services and repairs water production facility electrical equipment and control systems for wells, boosters, reservoirs and metering stations.
- E. Establishes plans and schedules for repair and/or replacement of electrical and control equipment and evaluates and troubleshoots electrical and control system problems.
- F. Constructs, installs, maintains, and repairs a variety of electronic/electrical controls, SCADA network, telemetering devices, and related components.
- G. Organizes and maintains an effective preventative maintenance program for all electrical equipment and performs preventive maintenance by analyzing, testing and repairing equipment before equipment failure.
- H. Responsible for maintenance and staff training related to the Electrical Safety program.
- I. Performs construction work by installing new electrical and control equipment, modifying existing equipment, removing obsolete and defective components and wiring, and installing protective devices.
- J. Regular, daily attendance is an essential function for this position.

## **REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:**

- Knowledge of applicable Town, state and federal statutes, ordinances, codes, rules and regulations governing water system operations.
- Knowledge of SCADA systems and their component functions.
- Knowledge of supervisory techniques.
- Knowledge of water systems and their operation.
- Knowledge of preventive maintenance planning.
- Knowledge of motors and motor controls.
- Knowledge of network architecture and protocols including Ethernet, IP, and other SCADA hardware and software.
- Knowledge of programmable logic controller applications and/or programming; electrical theory; solid-state electronics theory and practice.
- Knowledge of the installation, maintenance, and repair procedures for telemetering and PLCs; the capabilities and limitations of currently available controls instrumentation and telemetering devices; safety procedures and practices related to electronic and electrical work.
- Knowledge of solar power systems and their required operation and maintenance.
- Knowledge of personnel actions including hiring, terminating, and disciplinary.
- Skill in the use of NFPA 70E for Arc Flash.
- Skill in the use of the current National Electrical Code.
- Skill in maintaining AC systems less than 1000 Volts.
- Skill in interpreting and applying relevant Town, state and federal statutes, ordinances, codes, rules and regulations governing water system operations.
- Skill in creating and maintaining accurate and applicable reports and records.
- Skill in computerized database management and data processing procedures.
- Skill in verbal and written communication.
- Skill in establishing and maintaining effective working relationships.
- Skill in observing and evaluating trends, analyzing data, drawing logical conclusions, and making sound recommendations.
- Ability to lift up to 50 pounds on an occasional basis.
- Follows and implements OSHA requirements pertaining to water utility safety.

## **MINIMUM QUALIFICATIONS:**

- A high school diploma or equivalent.
  - A Bachelor's Degree in Computer Science, Computer Information Systems, Business Administration, or related field.
  - Five (5) years' experience in the installation, maintenance, calibration, configuration, programming and troubleshooting of SCADA networks including PLC programming.
  - A minimum of two (2) years of supervisory experience.
- OR**, an equivalent combination of education and experience.
- Valid Arizona Driver's License.
  - Successful completion of a background investigation

**SPECIAL REQUIREMENTS:**

- This position is considered a Safety Sensitive position and is subject to pre-employment Drug and Alcohol testing.

**ENVIRONMENTAL FACTORS and WORKING CONDITIONS:**

- Work is performed indoor and outdoor environments.
- Position is subject to after hour call out 24/7.