

**KENNEWICK IRRIGATION DISTRICT  
JOB DESCRIPTION**

**INSTRUMENTATION TECHNICIAN**

**REPORTS TO:** Assistant Operations/Maintenance Manager  
**DATE:** October 2015 (Job Analysis added July 2017)

**GENERAL SUMMARY:** Under the direction of the Assistant Operations/Maintenance Manager, this position installs and maintains the District's SCADA, radio, and other electronic systems which include all aspects of the system; hardware and software, communications and electrical systems. This position also provides operator support and training.

**ESSENTIAL DUTIES**

1. Install, repair, and perform preventative maintenance on radio, telemetry systems, and equipment.
2. Install, maintain, and repair electrical wiring and components.
3. Monitor, calibrate, adjust, balance, and program, as necessary or as directed, any and all sensors, transmitters, VFDs, PLCs, RTUs, and other equipment to maintain or meet operational parameters and goals.
4. Requisition repair parts; assist in writing or reviewing equipment specifications.
5. Maintain accurate and current records of the I & C systems including set points, historical records, record drawings, schematics, and shop drawings.
6. Respond to call outs as necessary.
7. Drive District vehicles in the course of duties.
8. Other duties as assigned

**EDUCATION & EXPERIENCE**

1. High school diploma or G.E.D.
2. Two (2) years of technical training in instrumentation and control technology or related field.
3. Four (4) years of related field experience.

**QUALIFICATIONS & CERTIFICATIONS**

1. First aid and CPR certified.
2. Washington State Flagger certification.
3. Washington State Driver's License
4. An acceptable driving record.

## KNOWLEDGE, SKILLS, AND ABILITIES

### **Knowledge of:**

1. Principles and practices of instrumentation and control systems
2. Principles, practices, techniques and instruments used in monitoring, troubleshooting, testing and calibrating I & C equipment and components.
3. Operational principles of RTUs, PLCs and VFDs.
4. Principles and practices of operation software and programming.
5. Two-way and multi point radio systems

### **Ability to:**

1. Interpret I & C engineering plans, specifications, and reports.
2. Read and interpret technical instrumentations and control and electrical drawing.
3. Prepare clear and concise records.
4. Operate a variety of equipment related to assignment.
5. Trouble shooting and diagnosing SCADA and radio problems.
6. PLC programming

## WORKING CONDITIONS

1. This position is normally both in an office environment and working outdoors in all weather conditions.
2. Heavy lifting and pulling up to 80 pounds, standing, kneeling, sitting, and climbing.
3. Work will also be done within electrical cabinets and around operating pump stations.
4. Includes climbing radio towers as necessary.

### Job Analysis

	N	S	O	F	C	
Climbing				X		On ladder troubleshooting
Balancing			X			
Stooping/Bending				X		Installing devices
Twisting				X		Installing devices
Squatting/Kneeling				X		Option to bending
Crawling			X			Chasing wires under a desk
Foot Controls		X				Drive vehicle to and from work site
Reaching Forward					X	Working on computers or peripheral devices
Reaching Below Waist				X		Troubleshooting
Reaching Above Shoulder				X		Installing or troubleshooting
Handle/Grasp				X		Carrying and installing devices
Fine Finger Manipulation					X	Programming, computer searching
Hand Controls			X			Vehicle
Repetitive Motion				X		Typing
Vibratory Tasks			X			
Talking					X	To Customer
Hearing					X	Listen to Customer

	N	S	O	F	C	
Visual					X	See water drip, small parts
ENVIRONMENTAL CONDITIONS						
Exposure to Weather					X	
Extreme Cold				X		
Extreme Hot				X		
Wet and/or Humidity				X		
Proximity to Moving Mechanical Parts			X			
Exposure to Explosives	X					
Noise Intensity-Loud			X			
Atmospheric Conditions					X	
Exposure to Heights			X			
Exposure to Electricity				X		
Exposure to Toxic/ Caustic Chemicals		X				
Exposure to Radiation	X					

Key:  
N = Never  
S = Seldom

O = Occasional  
F = Frequent  
C = Constant

Approved:

  
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Charles Freeman, District Manager

Date: July 18, 2017

Confirmed by Board: October 20, 2015