

Job Title: Computer & Instrument Tech Lvl 1 - Maysville KY (Expires 10 April 2020)
Job ID: 4639
Location: Spurlock – Maysville, KY
Full/Part Time: Full-Time
Regular/Temporary: Regular

EKPC Company Information

East Kentucky Power Cooperative is an electric generation and transmission company headquartered in Winchester, KY, just 15 minutes east of Lexington. We also have facilities across the state of Kentucky that generate electric power and service centers for local power lines and substations support.

EKPC offers a wage and benefits package that ranks among the best in the state. EKPC provides a 401(k) retirement plan; a medical and dental plan; competitive vacation package; and a professional work environment.

EKPC is an Equal Employment Opportunity Employer Minorities/Women/Disabled/Veteran

Key Roles

Ensures the reliability and integrity of all plant processes and equipment through proper implementation and communication of troubleshooting and maintenance procedures.

Key Responsibilities

- Maintains all automatic controls
- Calibrates, maintains, and repairs all pneumatic, hydraulic, mechanical, electronic, and electrical peripheral devices.
- Designs, installs, tests, modifies, and calibrates instruments, control systems and control loops.
- Utilizes and understands various types of testing equipment, computer functions, schematic drawing symbols, technical manuals, system logic, and blueprints for analog and digital control systems.
- Performs hardware and software modifications and ensures operations and performance of all plant computer systems.
- Maintains waste management system, control systems, and coal weighing equipment.
- Performs programming techniques to generate troubleshooting programs and control software modifications for power plant controls and writes programs as needed.
- Troubleshoots and tests accuracy of instrument components and repairs/replaces defective parts, modules and systems.
- Removes, dismantles, cleans, maintains and calibrates all instrumentation.
- Tests and installs all steam and water instruments and apparatus.
- Performs various tests as required by regulatory agencies.
- Instructs and assists all plant departments on all projects involving current and new systems
- Assists plant operators and maintenance mechanics in performing preventive or scheduled maintenance and major/minor repairs on all Plant Equipment, which may require strenuous lifting, moving or use of tools or machines.
- Program or revise transmitter program
- Change ranges on electronic transmitters
- Test electronic transmitters
- Perform preventive maintenance on pneumatic transmitters
- Test pneumatic transformers
- Perform preventive maintenance on feeder controls instrumentation
- Perform preventive maintenance on solenoids
- Replace, test, troubleshoot, or repair solenoids
- Perform preventive maintenance on positioners
- Perform preventive maintenance on signal converters

- Replace signal converters
- Test signal converters
- Perform preventive maintenance on controllers
- Adjust switches
- Perform preventive maintenance on switches
- Perform preventive maintenance on combustion controls instrumentation
- Change O-rings on general hydraulic equipment
- Isolate general hydraulic equipment
- Perform preventive maintenance on general hydraulic equipment
- Check operation of solenoid valve instrumentation for coal mills
- Replace thermocouple instrumentation for coal mills
- Repair thermocouple instrumentation for coal mills
- Change filters on lighter packages
- Check operation of thermocouple instrumentation for coal mills
- Isolate lighter packages
- Isolate pressure switch instrumentation on coal mills
- Perform preventive maintenance on boiler scanners
- Perform preventive maintenance on coal feeder equipment
- Perform preventive maintenance on lighter packages
- Perform preventive maintenance on pressure switch instrumentation for coal mills
- Perform preventive maintenance on transmitter instrumentation for coal mills
- Replace solenoid valve instrumentation for coal mills
- Replace thermocouple instrumentation for coal mills
- Replace boiler scanners
- Replace pressure switch instrumentation on coal mills
- Repair solenoid valve instrumentation for coal mills
- Repair thermocouple instrumentation for coal mills
- Repair transmitter instrumentation on coal mills
- Test lighter packages
- Test and replace alarms and annunciators
- Perform preventive maintenance on lube oil system instrumentation
- Perform preventive maintenance on dampers and drives
- Perform preventive maintenance
- Replace recorders
- Calibrate recorders
- Inspect and use ladder equipment
- Inspect scaffolding equipment
- Wire a circuit
- Troubleshoot motor starters
- Maintain thermocouple
- RTD
- Troubleshoot RTD
- Perform preventative maintenance on indicators (digital, analog)
- Replace indicator
- Troubleshoot indicator
- Repair indicator
- Calibrate indicator
- Remove and replace gauges
- Troubleshoot gauges
- Repair gauges
- Calibrate gauges

- Call up screens on DCS
- Remove and replace annunciator panel covers
- Remove and replace annunciator lamps
- Remove and replace annunciator printed circuit cards
- Troubleshoot annunciators
- Perform function test
- Remove and replace pressure or vacuum regulators
- Remove and replace pressure or vacuum regulator gauges
- Troubleshoot pressure or vacuum regulators
- Calibrate pressure or vacuum regulators
- Remove and replace actuators
- Troubleshoot hydraulic actuators
- Troubleshoot electric actuators
- Troubleshoot pneumatic actuators
- Overhaul actuators
- Fabricate and run tubing
- Perform basic rosin core and silver soldering
- Repair air and gas leaks in pneumatic instrumentation and controls
- Repair general wiring
- Repair hydraulic fluid leaks in hydraulic instrumentation and controls
- Repair tubing
- Replace ignitor transformers

Key Requirements

Education:

High school diploma or equivalent. Two (2) years of technical training or Associate degree in electronics, industrial maintenance, or related field preferred.

Experience:

- Three (3) years of electronic experience with background in digital and analog techniques preferred. Additional technical training may substitute for a portion of experience.
- Experience in hydraulic and pneumatic systems and in the use of computers and various programming techniques preferred

Skills and Abilities:

- Knowledge of power plant processes preferred.
- Must have a thorough knowledge of electronic troubleshooting techniques and be able to read and understand computer functions, schematic drawing symbols, technical manuals, system logic, and blueprints for both analog and digital control systems.
- Must be able to perform physically demanding operations and maintenance tasks.
- Must be able to utilize and understand various testing equipment.
- Must be knowledgeable of hexadecimal, binary, and octal numbering systems and an understanding of integrated circuits, operational amplifiers, transistors, and diode logic necessary.
- Must have a thorough knowledge of steam power principles and how they relate throughout the control system.
- Must be familiar with various types of automated controls (Digital, Microprocessor based, or operational amplifier designs).
- Must be able to work alone and make quick and accurate decisions concerning all controls.
- Must be skilled in safety related to working around high voltage applications.
- Must have effective communication skills.

Competencies

- Technical/Professional Knowledge & Skills
- Safety Awareness
- Contributing to Team Success
- Decision Making
- Continuous Learning

Conditions of Employment

- Must maintain a valid driver's license and live within one and a half (1.5) hours of the Plant.
- This is an on-call position; must have a telephone and carry a pager; non-scheduled overtime is a normal part of the job.
- Must pass an aptitude test, physical ability test and follow procedures for wearing a respirator and other protective equipment.
- Must be medically certified to wear respiratory protection.
- Must be able to appropriately don a respirator which would include no facial hair at the sealing surface.
- Regular lifting up to 50 lbs. and occasional lifting over 50 lbs. Regular climbing and work at heights on ladders and stairs required, as well as above-ground grating and platforms. Work conditions include: noise, heat in excess of 100 degrees, gas emissions, chemical vapors, dust, high-pressure lines and high voltage equipment.