



Knox Mueller

Electrician - Instrumentation and Electrical

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SUMMARY

Experienced Electrician, bringing over five years in industrial settings with a strong focus on instrumentation and electrical maintenance. Proficient in installing, troubleshooting, and repairing electrical wiring, circuits, and control systems. Committed to adhering to OSHA and ISO standards, ensuring safety and compliance at all times. Developed effective solutions for complex electrical challenges, contributing to enhanced efficiency on the production lines. Engaged in continuous training to stay current with best practices in equipment handling and safety. Joining your team allows leveraging expertise to maximize operational reliability while nurturing a culture of collaboration and safety.

EXPERIENCE

Electrician

Techtonic Electric Co. 📅 January 2021 – Present 📍 Gary, IN

Spearheaded installation projects and maintained electrical systems within a busy chemical manufacturing facility, emphasizing safety compliance and efficient operations.

- Directed installations of new electrical systems per engineering specifications, resulting in significant improvements in safety protocols.
- Diagnosed and rectified electrical malfunctions promptly, achieving an overall uptime improvement of operational machinery.
- Worked closely with all departments to implement upgrades that aligned with operational goals while enhancing work efficiencies.
- Completed comprehensive bench testing and calibration of a variety of instruments, fulfilling regulatory needs and optimizing functionality.
- Maintained accurate maintenance logs and was responsible for timely reporting, thereby supporting ISO certification processes successfully.
- Conducted on-site training sessions for new electricians focusing on safety practices and troubleshooting skills, fostering a safety-conscious environment.

Instrument Technician

Electro Solutions Group 📅 March 2018 – December 2020 📍 Hammond, IN

Managed installation and servicing of advanced field instrumentation and automated controls, actively enhancing plant operations and PM schedules across multiple shifts.

- Executed installation and repairs of automated valves for process controls, which resulted in better product quality due to consistent conditions.
- Supported maintenance teams by providing critical insight into control system faults that elevated response efficiency.
- Analyzed P&ID diagrams and electrical schematics daily, securing precision during installations and modifications.
- Leveraged CMMS software to better schedule preventative maintenance tasks, thus maximizing personnel productivity.
- Engaged in safety audits, highlighting potential risks and reinforcing compliance with established workplace safety guidelines.
- Assisted project managers in planning process improvements by offering feedback on existing systems based on advanced troubleshooting findings.

Electrical Apprentice

Bright Future Energy 📅 June 2016 – February 2018 📍 Crown Point, IN

Acquired foundational electrical knowledge through collaborative apprenticeship experiences under seasoned electricians focusing on practical applications within the trade.

- Supported certified electricians in the completion of various installation projects, gaining hands-on experience in diverse electrical applications.

STRENGTHS

- 🔧 **Proactive Troubleshooting**
Improved team trust and morale by diagnosing key electrical issues before they escalated, establishing a reliable reputation.
- 🛡️ **Safety Awareness**
Promoted a workplace culture focused on safety, resulting in peers often discussing preventive practices based on real-life experiences.
- 📋 **Effective Documentation**
Adopted detailed logging of maintenance activities, which facilitated cross-departmental communications regarding operational status and historical performance.
- 🎓 **Continuous Learning**
Kept abreast of evolving electrical codes and modernization procedures by actively pursuing targeted training courses.
- 👥 **Collaboration Skills**
Strengthened multidepartmental relationships by advocating for and implementing collective safety protocols derived from shared knowledge experiences.

SKILLS

Instrumentation and Electrical Maintenance

Troubleshooting and Diagnostics

CMMS Proficiency

Safety Compliance

Electrical Wiring and Conduit Installation

Strong Communication Skills

Field Calibration Techniques

Problem-Solving Aptitude

Project Coordination

Team Collaboration

Advanced Electrical Systems

Detail-Oriented Approaches

Regulatory Compliance Knowledge

Process Control Maintenance

Wiring Schematics Interpretation

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



● Electrician at Tectonic Electric Co. (5.5 Years)

● Instrument Technician at Electro Solutions Group (2.8 Years)

● Electrical Apprentice at Bright Future Energy (1.7 Years)

- Participated in regular training workshops, developing skills that addressed both codes and theoretical elements in practice.
- Contributed to the upgrade of electrical systems meeting new industry safety standards through teamwork on assigned projects.
- Helped maintain orderly job sites while executing electrical and equipment installations meticulously following safety regulations.
- Collected data and assisted in documentation necessary for adherence to safety measures on each assignment.
- Facilitated open communication among team members, effectively exchanging insights leading problem-solving efforts.

LEADERSHIP & AWARDS

- OSHA 30-Hour General Industry Certification awarded for commitment to workplace safety ensuring compliance with occupational regulations.
- Certified Instrumentation Technician (CIT) for proficiently delivering solutions in instrumentation contexts and enhancing production capabilities.

EDUCATION

High School Diploma

Hammond High School 🎓 GPA: 3.5 📅 2016 📍 Hammond, IN

Coursework: Graduated with a focus on industrial technology, basic electrical principles and safety regulations.

CERTIFICATIONS

- OSHA 30-Hour General Industry Certification 📅 2022
- Certified Instrumentation Technician (CIT) 📅 2020

TECHNICAL SKILLS

- **Electrical Safety Standards:** OSHA, NFPA 70E, IEC 61140
- **Instrumentation Tools:** Multimeter, Oscilloscope, Calibrator
- **Control System Platforms:** SCADA, DCS, PLC
- **CMMS:** Maximo, SAP, Infor EAM
- **Electrical Codes:** NEC, NESC, UL Standards
- **Software Proficiency:** MS Word, MS Excel, MS Outlook, MS PowerPoint
- **Document Management Systems:** SharePoint, Google Drive, Dropbox
- **Calibration Equipment:** Pressure Gauge, Temperature Sensor, Flow Meter
- **Electrical Components:** Breakers, Switches, Relays
- **Maintenance Methodologies:** Predictive, Reactive, Routine

PROFESSIONAL AFFILIATIONS

- Active member of the National Electrical Contractors Association, engaging in ongoing professional development and shared knowledge networks.
- Participant in local community volunteer programs focusing on electrification projects for nonprofit organizations.

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST