

Machine Tool Electrician

A machine tool electrician is responsible for the electrical wiring of machine tools. These include semi-automated machines, bench-top machines, and pneumatic devices. The primary job duties involve designing electrical layouts, assembling electrical components, and installing control panels. This position requires expertise with electrical layouts and machine tool wiring. Additionally, responsibilities to perform maintenance and repairs on these systems. Additional qualifications include strong mechanical skills, the ability to read blueprints, and experience using basic hand tools. Individuals in this position should have strong communication skills, a passion for their work, and the internal drive to maintain a high level of quality and craftsmanship. Works with Engineering, Skilled Trades Groups, Manufacturing Business Units Personnel.

Works Primarily With:

Skilled Trades Groups, Engineering, Manufacturing Business Units.

General Measurement Areas:

- Safety, Quality, Service and Productivity Goals.
 - No accidents or injuries.
 - Assignments satisfactorily meet quality specifications.
 - Responsiveness, effectiveness, and an attitude which represents a total commitment to customer satisfaction.
- Other areas that range from skill enhancement and continued education to willingness to accept additional responsibilities and maintain a high degree of self-directedness.

Job Requirements:

- Interpret and read blueprints to implement electrical and pneumatic diagrams to wire/pipe mechanical assemblies.
- Wiring semi-automated machinery from drawings and bills of materials.
- Conduct, maintain, test, troubleshoot, and repair electrical, mechanical, hydraulic, and pneumatic systems and components.
- Test electrical systems and continuity of circuits in electrical wiring, equipment, and fixtures, using testing devices such as ohmmeters, voltmeters, and oscilloscopes, to ensure compatibility and safety of systems.
- Bend and install all types of electrical conduit.
- Maintains application skills for electrical components, circuits, JIC, NEMA, NFPA and UL/CE electrical specifications and standards.
- Verifies installations through industry standard testing and validation processes.
- Resolves assembly problems by altering original design to meet specifications; notifying supervisor to obtain additional resources.
- Inventory parts and tools used in the assembling process.
- Utilize hand tools, power tools, and other fabrication equipment to complete tasks
- Work with team, show ability to communicate and take direction to work efficiently
- Able to perform solve, be observant to details and able to complete tasks with minimal supervision
- Test finished subassemblies and machinery for defects.
- To clean and maintain a secure and safe work environment.
- Keeps abreast of industry developments and augments own knowledge and skills to competently practice and apply.
- Must complete 50 hours per year of Technical Skills Development.
- Other duties as assigned



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Education Requirements:

- Minimum High School Diploma or equivalent.
- Robot and/or PLC based experience, certifications, or training is a plus

Skills Required:

- Minimum 3 years working as Machine Tool Electrician, or similar role, wiring equipment including installing cable trays, conduit bending, mounting electrical devices, pulling and terminating wires, power-up and circuit testing / fault finding.
- Ability to interpret and read blueprints.
- Knowledge and understanding of National Electrical Codes (NFPA-70, 70E, and 79).
- Experience with electrical circuits/systems up to 480 V.
- Ability to use multi-meter to read voltage, current and resistance.
- Knowledge of basic electrical theory
- Utilize hand tools, power tools, and fabrication tools to complete jobs as necessary.
- Ability to work standing, bending or kneel for extended periods of time.
- Ability to lift 50-lbs.

Physical Demands/Work Environment:

While performing the duties of this job, the employee is regularly required to sit, stand, use hands, reach with hands and arms, and talk and hear. The employee may lift/or move up to 30 pounds. Specific vision abilities required by this job include close vision, depth perception, and ability to adjust focus. The noise level in the work environment is occasionally loud.

ATTRIBUTES

The key attributes of success that this employee should demonstrate are:

Commitment – to family, fellow employees, and customers

Passion – to do his/her best at any assignment taking the initiative before being asked

Self-Esteem – respect for self and others

Sense of Urgency – an implicit understanding of job needs and priorities

Flexibility – willing & comfortable adapting to new circumstances & conditions

OPM – thinks of and treats the assets of the Company as if they were his/her own

An active learner – seeks feedback & constantly evaluates how things can be done better

Team orientation – enjoys working with others & accomplishing with others

Organization – easily structures & controls repetitive tasks/responsibilities

Detail Oriented – follows up all action items & has a concern for accuracy