



Sani-Matic Job Description

Title: Electrical Design Lead
Reports to: Automation Manager

Dept: Engineering
Status: Non-Exempt

Position Summary:

The Electrical Design Lead is responsible for working collaboratively with others to accomplish project electrical design objectives including preliminary specification assessments, electrical system design and drawing creation, and assist as a technical expert to internal and external clients. The Electrical Design Lead will work on several concurrent projects and will supervise the work flow of the electrical design staff.

Essential Functions:

- Read and understand sales proposal and P&IDs to develop system electrical design package which includes but not limited to panel layout drawings, line wiring diagrams, pneumatic diagrams and BOMs for fabricating and installing equipment.
- Works with panel fabrication and testing & automation personnel to ensure proper panel build and test.
- Perform electrical design calculations (raceway, wire, fusing, breaker, transformer and power supply sizing, voltage drops, panel & junction box sizing, internal panel heat loads and enclosure cooling requirements) per relevant codes & standards (UL, NFPA, and CE).
- Clearly communicates project and design related issues to project team members.
- Understands and applies Sani-Matic engineering/design standards and practices, quality system procedures and other standards/procedures as appropriate to the design function.
- Works closely and communicates with Project Engineers, Sales, Estimating, Manufacturing, Installation and Service to resolve design issues, change orders and approvals.
- May represent Sani-Matic in matters of coordination and technical assistance related to the electrical design aspect of the project.
- Performs additional duties as assigned by Manager.

Knowledge / Skills / Expertise:

- Technical or Associate Degree from an accredited technical institution or college in electrical engineering/technology required.
- Minimum of two years of previous electrical control panel design experience is required.
- Proficient in AutoCAD Electrical or other electrical design software required.
- Strong working knowledge of electrical design (conduit and wire schedules, panel layout, P&IDs, instrumentation design details, motor control schematic and automation components (PLC) & wiring, etc.).

- Familiarity with UL508A electrical code such as they apply to equipment and panel wiring.
- Familiarity with pneumatic, electronic and analytical instrumentation used to measure and control flow, temperature, pressure and level of fluids.
- Microsoft Office products experience required.
- Good analytical and problem solving, verbal and written communication skills to work effectively within a team environment.
- Ability to effectively check all drawings for errors or deviations from standard practice prior to submittal to customers or manufacturing.

Environmental Conditions:

- Humidity level may be elevated during summer months in the manufacturing areas.
- Exposure to certain contaminants, at times, in the manufacturing areas.
- Exposure to loud noise levels, at times, in the manufacturing areas.

Physical Demands:

- While performing the duties of the job, the employee must be able to use a keyboard, calculator and telephone. They are regularly required to stand or walk, sit, talk, hear, and use hands to finger, grasp, handle, or feel. The employee must occasionally climb, stoop, kneel, crouch, lift (10lbs) and be able to adjust vision for close vision work. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

What Sani-Matic Offers and Expectations of Employees:

A culture that embraces five Core Values:

- Do what is right.
- Put customers first.
- Commit to continuous improvement.
- Focus on safety.
- Deliver consistent quality.

Note: This job description is reviewed periodically and may be subject to change.

