

Job Title: Electrical Design Engineer (MALE / FEMALE)

Job Summary: As an Electrical Design Engineer (HV, MV, LV), you will be responsible for designing, developing, and testing electrical systems and components. Your role involves collaborating with cross-functional teams to ensure that electrical designs meet industry standards, project specifications, and safety regulations.

Responsibilities:

1. Electrical System Design:

- Develop and design electrical systems, components including primary and secondary drawings for various projects ensuring compliance with specifications, codes, and standards.
- Create detailed schematics, wiring diagrams, and layout plans using computer-aided design (CAD) software.

2. Component Selection and Specification:

- Select appropriate electrical components, equipment, and materials based on project requirements.
- Specify technical requirements for the procurement of electrical components.

3. Collaboration with Cross-Functional Teams:

- Work closely with mechanical engineers, project managers, and other team members to integrate electrical systems into overall project designs.
- Collaborate with manufacturing and testing teams to ensure seamless implementation of electrical designs.

4. Testing and Validation:

- Develop and implement testing procedures and protocols to ensure the functionality and safety of electrical systems.
- Analyze test data and make recommendations for design improvements.

5. Prototyping and Troubleshooting:

- Build and test prototypes to validate design concepts and identify potential issues.

- Troubleshoot electrical problems during the development and testing phases.

6. **Compliance and Standards:**

- Ensure that electrical designs comply with relevant industry standards, codes, and safety regulations.
- Stay updated on industry trends, technologies, and best practices.

7. **Documentation:**

- Prepare and maintain detailed documentation, including design specifications, bills of materials, and test reports.
- Create user manuals and documentation for end-users and maintenance teams.

8. **Cost Estimation:**

- Provide input for cost estimation and budgeting related to electrical components and systems.

Qualifications:

- Bachelor's degree in Electrical Engineering or a related field.
- Proven 3-5 years' experience as an Electrical Design Engineer
- Proficiency in computer-aided design (CAD) software.
- Strong knowledge of electrical engineering principles, components, and systems including complete design of grid Station and T/L (132/220KV)
- Familiarity with relevant industry standards and codes.
- Excellent analytical and problem-solving skills.
- Effective communication skills for collaboration with cross-functional teams.

Note: The responsibilities and qualifications listed here are general and may vary based on the specific requirements of the company and the industry in which the Electrical Design Engineer works.