



JOB DESCRIPTION

Job Title: Design Engineer

FLSA Code: E

Function: Instrument Transformer

Date: 06/1/2011

Note: The statements included in this job description are intended to reflect, in general, the duties and responsibilities of this classification and are not to be interpreted as being all inclusive.

CHARACTER OF THE JOB:

Reports to the Manager of Engineering – High Voltage Instrument Transformers and is responsible for the electrical and mechanical design of transformer products. This position requires much interaction with shop operators and customer service personnel.

MINIMUM EDUCATION REQUIRED:

Four year electrical engineering degree preferred with other engineering degree considered in combination with work experience.

MINIMUM EXPERIENCE REQUIRED:

No experience is necessary. The preferred candidate will have a power background in electrical engineering studies. Two years or more of transformer electrical and mechanical design experience or experience with quality assurance/test or with an electric utility would also be preferred.

ACCOUNTABILITY:

1. Produce calculations, drawings, sketches, instructions, bills of materials, etc. for drafters and others to follow to satisfy the requirements of the Marketing Shop Orders and customer specifications.
2. Work with other members of design team to complete all required drawings and bills of materials.
3. Provide technical assistance to drafters and to the shop floor personnel as required.

KNOW-HOW:

1. The candidate will achieve a thorough working knowledge of high voltage instrument transformers, including basic design and application.

ABB Kuhlman

Power Products Division US
www.abb.us

High Voltage Instrument Transformers
3101 Beaumont Centre Circle, Ste 225

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2. The candidate will be able to apply engineering principles to the electrical and mechanical design of transformers.
3. The candidate must be able to read and interpret customer specifications, industry standards, and company design standards, and apply to transformer design.
4. Must be able to use a personal computer to do engineering calculations using commercial and proprietary programs, and to perform other office functions. Must be proficient in MS Word, Excel, PowerPoint, etc. The candidate will achieve proficiency in SAP or other MIS systems, etc.
5. Other desired skills include Finite Element Analysis (FEA), PLC programming, Boolean logic, Root Cause Fault Analysis, and AutoCAD.

PROBLEM SOLVING:

1. Must be able to reason and think logically.
2. Must be able to analyze problems and to develop corrective actions.
3. Must be able to work with others to collectively solve problems.
4. Must be able to multi-task several projects and prioritize workload to meet deadlines.
5. Must be able to systematically maintain engineering records and archives.

APPROVAL:

Manager, Human Resources
Manager of Engineering – High Voltage Instrument Transformers
Managing Director – High Voltage Instrument Transformers

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