Example of Electrical Test Engineer Job Description

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Our innovative and growing company is looking to fill the role of electrical test engineer. To join our growing team, please review the list of responsibilities and qualifications.

Responsibilities for electrical test engineer

- Assist in the development of new equipment specifications to ensure that any new equipment meets all testing requirements
- Assist in the development and implementation of test facility upgrade projects
- Design and develop new test equipment for verification of electro-mechanical actuator development, qualification, and production
- Lead technicians in test execution of testing and test equipment development
- To safely carry out high quality examination of designated electrical installations on client premises, in line with agreed schedules
- To act as an advisor to clients, colleagues and external bodies, providing technical and legislative advice where necessary
- To adhere with all relevant safety guidance and legislation including the code of practice for in-service inspection and testing of electrical equipment and the Health & Safety at Work Act 1974
- Design and implementation of engineering test plans for testing circuit boards and other power components
- Testing of inverter systems, electrical machines and operating supporting auxiliary test systems and test facility equipment
- Operation of test cells with variable frequency drives, battery simulators, active/passive loads and thermal chambers

Qualifications for electrical test engineer

- Experience in a scripting language such as, Python or MATLAB, to automate instruments and analyze data
- Familiarity with integrated circuit design and testing such that the engineer is able to craft a test-plan from a datasheet or specifications document
- Ability to read PCB schematics to debug or quickly modify electrical test systems
- Bachelors degree from an accredited college in Electrical Engineering or in a related discipline, or equivalent experience/combined education
- Electronic circuit analysis
- Troubleshooting electronic circuits to component level