

Electronics Engineer

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Company: TGT Diagnostics

Location: abu dhabi

Category: other-general

The Electronics Engineer is responsible for soldering and modification of circuit boards and assemblies, flashing and testing of products on PCs, and customisation of finished products. He/she will work as part of our manufacturing team, sharing responsibility for executing challenging tasks to plan and produce high-performance reliable downhole tools, solving complex manufacturing challenges, and troubleshooting quality and production yield-related issues. Perform soldering and modification of circuit boards. Perform manual soldering of electronic modules with surface and pin mounting. Assemble printed modules of different complexity. Perform customisation of manufactured tools. Set up assemblies and electronic components of geophysical equipment according to technical standards and procedures. Perform electrical and mechanical setup and inspection of assemblies and devices according to instructions. Set up and conduct resistance tests on electronic components and assemblies, including circuit board assemblies, sensor installations, integration with mechanical systems, and climate tests. Perform testing and calibration of geophysical equipment according to the test procedure. Perform the firmware and test microcontrollers of the assembled tools. Prevent or eliminate defects in new or existing products. Analyse failures and make recommendations. Write reports and document technical data generated during the tests. Perform other duties as assigned.

Qualification Requirements Bachelor's degree in Electronics Engineering or similar field (e.g. Instrumentation, Electrical, Computer Science) 3+ years of relevant work experience in a similar role in Manufacturing, preferably in the oil and gas industry. Experience hands-on testing with electronics assemblies. Proficient with Circuit Board Assemblies, Wire Routing,

Sensor Installations, Integrations with Mechanical Systems, Data Collections and Environmental Chamber Configurations. Working knowledge of analogue & digital electronics, sensors and signal processing. Experience in test and measurement equipment such as logic analysers and oscilloscopes and read electrical schemes and drawings; Advanced and diversified knowledge of engineering principles. Strong analytical, problem-solving and multi-tasking skills

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