



JOB DESCRIPTION FORM

Author: RR HR	Last Revised By: EAH.	
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JOB DESCRIPTION

JOB TITLE: Design Verification Test Engineer

DEPARTMENT: Research, Development and Engineering

REPORTS TO: Manager Engineering

POSITIONS SUPERVISED: None

Position Summary:

The Design Verification Test Engineer's (DVTE) primary role is to work as part of New Product Development (NPD) or Sustaining Engineering teams in verifying performance of hardware, software, firmware, and mechanical subsystems/modules and in finding potential product defects before a design or design fix is released. The DVTE will develop test plans and test cases, execute and document tests that will ensure proper performance of Radian products. The DVTE will collaborate closely with various Engineering Staff, Customer Support Staff, Laboratory Staff and Quality Assurance Staff to implement the testing of products and/or subassemblies.

Responsibilities:

- Creates and executes test plans to verify that products are in accordance with Radian product requirements and Customer expectations.
- Provides input as part of NPD project teams, providing expertise to guide design/ development, testing plans and documentation. DVTE participates in product design reviews, requirements meetings, and in production and testing process development.
- Keeps Manager Engineering and NPD Project Lead apprised of any quality concerns or potential design shortfalls discovered during testing.
- Prepares concise, detailed, professional test reports that become part of the NPD design history file or Change Activity Request files for Sustaining Engineering projects.
- Uses project management skills to plan work, meet deadlines and adapt to the changing needs of a cross-function team-based project.
- Performs data analysis to ensure only accurate information is presented to management.
- Supports Production with the development and analysis of testing equipment when needed.
- Other as required

Education:

Candidate must possess a Bachelor's degree in (BSEE) Electrical Engineering, or (BSEET) Engineering Technology or equivalent.

Experience:

3+ years of product / quality testing (development & execution of test plans) on electronic products.
3+ years of field testing and troubleshooting to identify problem root causes.

Knowledge of:

- Testing disciplines including strategy, planning, designing, executing and documenting.
- Change control reporting and management systems.
- Software and firmware testing experience is desired.
- Electrical theory and concepts, calibration, and metrology knowledge would be a strong plus.
- Technical concepts relating to instrumentation.
- Power & Energy measurement equipment, Watt-hours, VARs, Harmonics, Phase Angle, and other key power terminologies.

Skilled at:

- The design, writing, and execution of quality test plans for electronic devices.
- Component testing, integration testing, system testing, performance testing, regression testing, test planning and documentation.
- Writing test plans, executing them and generating test reports.
- Review of new product designs and product design changes.
- Problem solving.
- Communication in both written and verbal form.
- Working in a highly supportive and interactive team environment.

Desirable Qualifications:

- Familiarity with computer programming languages and scripts (e.g. C++, Python, Perl)
- Ability to multi-task while meeting testing/project deadlines.
- Critical thinking, organization skills, self-motivated, and detail-oriented.
- Demonstrates the ability to analyze problems.
- Ability to offer technical support of products including fault analysis
- Shows initiative in gaining theoretical knowledge of what testing is needed and why
- Intermediate to advanced computer skills.

Equal Opportunity Employer Minorities/Women/Veterans/Disabled

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or protected veteran status and will not be discriminated against on the basis of disability.

Travel Domestically: Y X or N

Travel Internationally: Y or N X

Physical Abilities: Circle one

N=Not Applicable (Activity is not applicable to this occupation)

O=Occasionally (Occupation requires this activity up to 33% of the time; 0-2.5+ hours per day)

F=Frequently (Occupation requires this activity from 33% to 66% of the time; 2.5-5.5+ hours per day)

C=Constantly (Occupation requires this activity more than 66% of the time; 5.5+ hours per day)

Physical Requirements:

Stand	N	<input type="radio"/>	F	C
Sit	N	<input type="radio"/>	F	<input checked="" type="radio"/>
Walk	N	<input type="radio"/>	F	C
Handling/Fingering	N	<input type="radio"/>	<input checked="" type="radio"/>	C
Reach Outward	N	<input type="radio"/>	F	C
Reach Above Shoulder	N	<input type="radio"/>	F	C
Climb	N	<input type="radio"/>	F	C
Crawl	<input checked="" type="radio"/>	<input type="radio"/>	F	C
Squat or Kneel	N	<input type="radio"/>	F	C
Bend	N	<input type="radio"/>	F	C

Push/Pull

12 lbs. or less	N	<input type="radio"/>	F	C
13-25 lbs.	N	<input type="radio"/>	F	C
26-40 lbs.	<input checked="" type="radio"/>	<input type="radio"/>	F	C
41-100 lbs.	<input checked="" type="radio"/>	<input type="radio"/>	F	C

Lift/carry

10 lbs. or less	N	<input type="radio"/>	F	C
11-20 lbs.	N	<input type="radio"/>	F	C
21-50 lbs.	N	<input type="radio"/>	F	C
51-100 lbs.	N	<input type="radio"/>	F	C
Over 100 lbs	<input checked="" type="radio"/>	<input type="radio"/>	F	C

Other physical requirements:

Read Computer Screen	N	<input type="radio"/>	F	<input checked="" type="radio"/>
Operate Key Board	N	<input type="radio"/>	F	<input checked="" type="radio"/>

Work Environment: Temperature Controlled, Hazardous Voltages Present.

The company has reviewed this job description to ensure that essential functions and basic duties have been included. It is not intended to be construed as an exhaustive list of all functions, responsibilities, skills and abilities. Additional functions and requirements may be assigned by supervisors as deemed appropriate.