Test Report Template

Based on ISO/IEC/IEEE 29119, IEC 60068, ISO/IEC 17025

Delta Laboratory

1. Test Plan Summary

Document ID	Version	Date	Prepared By	Approved By	Observations
TEST-000	1.0	September 25, 2025	Alice	Bob	None

2. Purpose and Scope

Explain why the test is being performed and what it consists of, including:

- **Main objective of the test:** Describe the purpose, such as functional verification, performance evaluation, or compliance validation.
- **Limits of the test:** Specify which subsystems are included or excluded from the scope.
- **Key focus areas:** Indicate any special aspects to be checked, for example environmental resistance, calibration traceability, or safety features).

3. References

List all documents, standards, and procedures used to design or execute the test.

- **Standards:**

  [1] *Iso/iec/ieee 29119: Software testing*, 1st edition, ISO/IEC/IEEE, 2013.

  [2] *Iec 60068: Environmental testing*, 1st edition, IEC, 2013.

  [3] *Iso/iec 17025: General requirements for the competence of testing and calibration laboratories*, 3rd edition, ISO/IEC, 2017.

- **Design Documents:** Engineering drawings, schematics, datasheets.
- **Internal Procedures:** Company testing protocols, safety guidelines.

4. Definitions and Abbreviations

Avoid confusion by clarifying technical terms and acronyms.

- **DUT:** Device Under Test – The hardware being tested.
- **EUT:** Equipment Under Test – Same as DUT, used in some standards.
- **RBF:** Remove-Before-Flight safety pin.

5. Test Item Identification

Name / Idem Number	Serial Number / Revision	Manufacturer	Configuration (HW/SW)	Photographs / Diagrams
Enter the official idem name or code	Enter serial number and revision code	Manufacturer name	Hardware and software version details	Include reference to images or diagrams showing identification marks

6. Test Environment and Equipment

6.1 Environmental Conditions

Document the physical conditions during the test.

- Ambient temperature (℃)
- Humidity (%)
- Pressure (if relevant and applicable)
- EMC/EMI background (if relevant and applicable)

6.2 Test Equipment

No.	Equipment Name	Model/Type	Manufacturer	Calibration Date	Serial No.	Notes
1	Equipment name	Type or Model	Manufacturer	Calibration Date	Serial No.	Notes
2	Oscilloscope	MSO-X 3054A	Keysight	2024-11-15	ABC456	500 MHz bandwidth

7. Test Inputs, Outputs, and Acceptance Criteria

7.1 Test Inputs

List all inputs applied to the DUT (voltages, loads, software commands).

7.2 Expected Outputs

Describe measurable responses (voltage, signal shape, movement, LED indicators, etc.).

7.3 Acceptance Criteria

Set the pass/fail limits:

- Tolerances (± values)
- Minimum performance thresholds
- Safety constraints

8. Test Procedure

Provide a clear, step-by-step process so the test can be repeated exactly.

1. **Setup:** Prepare the DUT, connect equipment, configure environment.
2. **Action:** Apply stimulus or command.
3. **Measurement:** Record DUT response.
4. **Verification:** Compare with acceptance criteria.

Step	Input Condition	Expected Output	Actual Output	Pass/Fail
1				
2				
3				

9. Results

9.1 Raw Data

Attach logs, oscilloscope screenshots, photos, or measurement sheets.

9.2 Analysis

Highlight anomalies, trends, and deviations from expected performance.

10. Conclusion

- **Overall Result:** Indicate if the DUT passed or failed the tests.
- **Key Observations:** Summarize important findings, anomalies, or deviations from expected behavior.

11. Signatures

Name	Role	Date	Signature
Bob	Approver	September 25, 2025	

12. Annexes

Include:

- Test circuit diagrams.
- Environmental chamber profiles.
- Calibration certificates.

IMPORTANT:

This template is a guide, not a pre-filled report. All instructions and example text must be replaced with the actual test information, ensuring accuracy, completeness, and compliance with international laboratory standards. Text written in dark cyan is a visual reminder that it must be replaced with the real test data.