# Technical Test Analyst

## Definition

**# Source**: **Chatgpt (GPT-5-Standard) at [8/22/2025]**

A **Technical Test Analyst** is a testing professional who focuses on **testing the technical aspects of a system**, such as **performance, security, reliability, and integration**, often at a **component, API, or system level**.

* Combines **testing knowledge with technical skills** like scripting, database queries, or network analysis.
* Ensures the software is **technically robust**, not just functionally correct.

## Key Responsibilities

**# Source**: **Chatgpt (GPT-5-Standard) at [8/22/2025]**

1. **Technical Test Design**
   * Design **technical test cases** for non-functional requirements (performance, security, reliability).
   * Use **technical specifications** to create boundary, error, and data-driven tests.
2. **Test Execution**
   * Execute **technical, automated, and backend tests**.
   * Perform **integration, system, and API testing**.
3. **Defect Analysis**
   * Identify **technical defects or performance bottlenecks**.
   * Collaborate with **developers and DevOps** for root-cause analysis.
4. **Automation & Tools**
   * Use **automation, performance testing, and security testing tools** (e.g., JMeter, Selenium, OWASP ZAP).
   * May write **scripts or queries** to validate data and system behavior.
5. **Collaboration**
   * Work closely with **Test Analysts, Test Designers, Developers, and Test Automation Engineers**.

## Skills Required

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* Strong **technical knowledge** (programming, databases, APIs, networking).
* Understanding of **non-functional testing types** (performance, security, reliability).
* Familiarity with **automation tools** and **test frameworks**.
* Analytical skills for **problem-solving and debugging**.

## Deliverables / Outputs

**# Source**: **Chatgpt (GPT-5-Standard) at [8/22/2025]**

* **Technical Test Cases & Test Scripts**
* **Test Data and Configuration Files**
* **Test Execution Reports (Performance, Security, etc.)**
* **Defect Reports for Technical Issues**

## Shortcut to Remember:

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**Technical Test Analyst = Test the system’s technical aspects + automate and analyze results + ensure robustness**

## ✅ **Summary Note:**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/22/2025]**

* Focuses on **technical validation**, unlike Test Analyst/Designer (functional/business focus).
* Works closely with **automation engineers and developers**.
* Key for **non-functional testing** and **complex technical systems**.