



Quality Assurance Engineer

WHAT DOES A QA ENGINEER DO?

A QA Engineer is responsible for preventing critical incidents and mitigating support requests. This includes simulating chaotic scenarios to test existing systems, documenting recovery timelines, communicating with all levels of leadership, and compiling reports that support the analysis of incident trends. More organized manners of QA Engineering are referred to as Failure Injection Testing (FIT), which focuses on creating chaos in specific systems within an enterprise.

Day-to-Day Expectations and Responsibilities

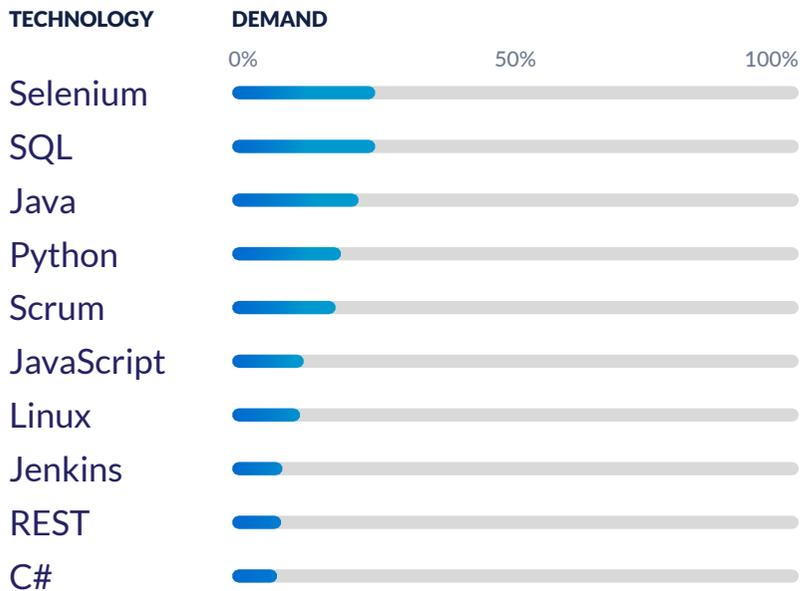
-  **Develop, improve, and maintain automated tests** in collaboration with Full-Stack Engineers and DevOps Engineers
-  **Review business and technical requirements** for new software and develop quality strategies accordingly
-  **Collaborate with stakeholders** to ensure technical infrastructure meets performance and scalability requirements
-  **Analyze the impact of new solutions** and run appropriate regression testing

Key Traits of a QA Engineer

-  **Communicative:** QA Engineers serve as the gatekeepers of applications and communicate technical issues through multiple channels to ensure smooth software releases.
-  **Analytical:** QA Engineers must be able to systematically develop hypotheses and disprove causality until root cause is determined.
-  **Logical:** The strongest QA engineers are able to anticipate failures using logic and thereby create tests that prevent production incidents.
-  **Inquisitive:** QA Engineers are natural builders and take extra efforts to understand the inner-workings of technology

QA ENGINEER

Trending Technology Skills for QA Engineers



*Figures represent the share of all QA Engineer job postings analyzed that require a given skill. Data as of October 1, 2018. View this week's data [here](#).

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QA Engineer Target Skill Set

Technical Skill Set

- ✓ Experience with software testing framework tools including Selenium
- ✓ Experience with programming languages including Java, JavaScript, and Python
- ✓ Experience creating application stress tests
- ✓ Experience with Amazon Web Services, Microsoft Azure, and Google Cloud Platform

Non-Technical Skill Set

- ✓ Analytical mindset
- ✓ Ability to document clearly and research purposefully
- ✓ Ability to prioritize and multitask in order to meet deadlines

Starter Training Plan for QA Engineers

The following Cloud Academy courses and training plans prepare professionals to become QA Engineers. [Learn More About Training Plans >](#)

 **Amazon Web Services**
[Solutions Architect – Associate Certification Preparation for AWS](#)

 **Microsoft Azure**
[Architecting Microsoft Azure Solutions: 70-535 Exam Preparation](#)

 **Google Cloud Platform**
[Google Cloud Platform for System Administrators](#)