

Sample Apprenticeship Posting: Software QA Tester

What Will You Do:

Summary of the role and activities

With the direction of a Developer, you will execute testing efforts of software, which include documentation, reporting, analysis and final product acceptance. The work of a Software QA Tester ensures applications and platforms can communicate with each other.

- Test software with scripts. Log and track defects found during testing.
- Assist with integration, regression, and various other testing.
- Identify and recommend changes to increase the effectiveness and quality of software.
- Communicate with software users to address system bugs.

Who You Are:

Preferring mindsets and interests

- **Team player:** Open communicators that want to help get things done and gather as much information as possible.
- **Learner:** You like learning new things and understanding the “how” behind what makes software and computer applications work.
- **Technical Mindset:** Technology does not have to be life, but it helps if you want to learn about and work with it. Some basic familiarity with the use of computers, hardware, and peripheral devices.

What You Have Done:

Educational Requirements for Applying Candidates

Applicants should be able to communicate clearly and concisely, both verbally and in writing.

Applicants should also be on track to master the following arithmetic competencies by the beginning of the apprenticeship in order to access potential college-level training content (as outlined in College Board Accuplacer Program Manual, October 2016):

- Can perform the basic arithmetic operations of addition, subtraction, multiplication, and division using whole numbers, fractions, decimals, and mixed numbers
- Can make conversions among fractions, decimals, and percentages

What You Will Learn:

Occupational Competencies the apprentice will develop in the role

- **Basic Web Development:** commonly-used web development languages including AJAX, XML, HTML 5, CSS, and JavaScript.

- **General Database:** SQL basics (e.g., selecting, inserting, updating, deleting records), at least one database management application, and database fundamentals such as normalization, schemas, etc.
- **Software Testing:** test types, bug and issue management tools (JIRA/HP ALM), mobile testing, cloud based testing
- **Microsoft Office:** Demonstrated use of multiple end-user software packages and cloud solutions (which must include a business productivity suite such as MS Office or Google Docs) and working knowledge of how to install, configure, and maintain some of these packages in an enterprise environment

Foundational Competencies the apprentice will develop in the role

- **Software Testing:** Writing computer scripts that test software for quality and bugs, staying within pre-defined requirements; ideally, understanding how given programs create value for business and end-users.
- **Critical Thinking:** Using logic and reasoning to identify the risks and rewards of alternative solutions, conclusions, or approaches to problems to improve operational efficiency; seeing the big picture and identifying patterns like a large number of tickets for the same type of issue; identifying opportunities for improvement by regularly reevaluating the status quo.
- **Coordination:** Adjusting actions in relation to others' actions; able to improve overall team performance and consider broader impact of individual decisions; aware of overall team goals and context; writes code that can be read and maintained by others.

Apprenticeship Certifications

- This apprenticeship will include a minimum of 2 college courses