

Software Testing Analyst

Core IT Pathway



The Software Testing Analyst is responsible for planning, implementing, and executing testing to support IT and business processes. Using established techniques, they analyze functional specifications and test core application functionality, user interface, menu functions, etc. Software Testing Analysts create clear and understandable incident reports and contribute to continuous

improvement standards, procedures, and methodology.

All software applications that are developed either for use on the internet, or in offices, or for mobile devices need testing. A testing analyst plays a critical role in the Software Development Life Cycle (SDLC) for the success of the software and in user experience and satisfaction.

5 Courses, 6 certifications, 10 Credits **216 Hours**

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| Foundations in Information Technology | Introduction to Agile Project Management and Software Testing |
| Software Testing Fundamentals | |
| Capturing, Organizing & Presenting Data | Business Skills Workshops |

6 Certifications* **CompTIA | Certiport | Microsoft | ISTQB® | IAPM**

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| CompTIA Tech+ | ISTQB® Certified Tester Agile Tester Certificate |
| ISTQB® Certified Tester Foundation Level | Microsoft Office Specialist – Microsoft Excel |
| Certified Junior Agile Project Manager (IAPM) | Certiport – IT Specialist: Databases |

*Third party certification providers give certification exams that must be successfully completed as per their requirements.

Project

Students will execute functional and regression testing per a test plan and analyze and report on the test results.

Certificate of Completion	College Credits
Students who pass all the courses and pass at least 50% of the certification exams receive a Certificate of Completion that represents successful completion of the Software Testing Analyst program.	Whether or not you plan to continue your formal education immediately after completing a NuPaths' program, you'll earn college credits that you can apply toward a college degree. Students have the potential to earn up to 10 college credits in the Software Testing Analyst program.

Course Descriptions

Foundations in Information Technology

The course focuses on the basics of computer hardware, software, mobile computing, networking, troubleshooting, and emerging technologies. Students learn about configuring operating systems, file and folder management, networks and network configuration, and the role of the OSI model in networking and troubleshooting. The course also includes an exploration of cutting-edge technologies such as cloud computing and virtualization.

Software Testing Fundamentals

The course focuses on the fundamental concepts of software testing including a common language for efficient and effective communication with other testers and project stakeholders. Established testing concepts, the fundamental test process, test approaches, and principles to support test objectives for both performance and usability are also explored.



Capturing, Organizing, and Presenting Data

Students will explore spreadsheets and databases for capturing, organizing, and presenting data. They will learn the essentials for editing, formatting, and printing worksheets and workbooks as well as how to visualize data in Microsoft Excel with charts, styles, and templates. Students will also develop the skills necessary to create a database, construct data tables, create reports and analyze queries and statements in SQL server. Relational database design, writing advanced queries, data retrieval, data manipulation using DML, and troubleshooting are explored.

Introduction to Agile Project Management and Software Testing

AGILE is a project management methodology that promotes continuous iteration of development and testing concurrently throughout the software development lifecycle. The course defines the core principles of AGILE methodology and examines three different methods of AGILE. The course also provides direction for AGILE testing, an approach that follows the principles of AGILE development.

Business Skills Workshops

This course focuses on the business or “soft” skills that allow people to interact effectively and productively; skills like collaboration, communication, emotional intelligence, and time management.

Technology Experience Gained

Operating systems . Anti-malware software . Productivity software . Browser software . Wireless router
Backup software . Hardware . External storage . Mobile devices . Test management software . Test
execution software . Test data generation software . Result comparison software . File monitoring
software . Testing libraries . Test automation . Microsoft Excel . SQL Server

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