Software Testing & Quality Assurance (QA)

COURSE OVERVIEW

This course provides a deep dive in understanding software reliability, functionality, and performance through systematic testing methodologies and quality management practices. It examines the principles of software testing, testing life cycles, defect management, test planning, and execution, gaining exposure to both manual and automated testing techniques. The course covers functional and non-functional testing, agile testing practices and industry-standard tools such as Selenium, JUnit, and Jenkins. Participants will acquire the skills to identify and resolve defects, improve software quality, and align testing strategies with organizational goals and international standards.

WHO SHOULD ATTEND?

This course is designed for aspiring software testers, QA engineers, software developers, IT professionals, aiming to gain expertise in quality assurance and testing. It is also suitable for project managers, business analysts, and professionals transitioning into QA roles who want to understand how testing contributes to the software development lifecycle (SDLC) and product success.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the fundamentals of software testing and QA principles.
- Apply different types of testing methods (e.g. unit, integration, system, and acceptance testing)
- Design and implement effective test cases, plans, and strategies.
- Use manual and automated testing techniques with industry-standard tools.
- Perform functional, non-functional, regression, and performance testing.
- Integrate QA processes into Agile and DevOps workflows.
- Manage defects effectively and ensure compliance with quality standards.
- Contribute to delivering reliable, secure, and high-quality software products.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- The in-depth coverage of testing principles, lifecycle, and methodologies.
- The practical training in manual and automated testing tools (e.g., Selenium, JUnit, Jenkins).
- Hands-on projects in functional, regression, performance, and security testing.
- Exposure to Agile, Scrum, and DevOps testing practices.
- Guidance on test planning, case design, execution, and defect management.
- Integration of testing with CI/CD pipelines and modern workflows.
- Application of QA practices to real-world software applications.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.
1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded.