

QA

INTERMEDIATE

4 DAYS

Quality Assurance Foundations

Build a strong foundation in Software Quality Assurance by understanding the SDLC, testing types, and test planning strategies. Learn how to design and execute test cases, analyze quality metrics, apply test automation concepts, and collaborate effectively to ensure high quality software delivery.

Why QA Foundations?

Improving product quality

Results in improved customer satisfaction, loyalty, and retention.

Reducing costs

By detecting and fixing defects early in the software development lifecycle

Ensuring compliance

QA can help ensure that products and services meet these standards, avoiding potential legal and financial consequences.

What you'll be able to do

- ✓ Introduction to Software Quality Assurance
- ✓ Understanding Software Development Lifecycle (SDLC)
- ✓ Knowledge of how to use the Types of Testing & Test Planning and Strategy
- ✓ Learning Test Case Design & Test Execution and Reporting
- ✓ Understanding Quality Metrics & Test Automation
- ✓ Gaining proficiency in Communication and Collaboration

Who this is for

- Software developers
- Testers
- Project managers
- Test Lead
- Business analysts
- Test Engineer
- Test Automation Engineer
- Performance Tester

Curriculum

01 Agile Framework

- This includes an overview of Agile development methodologies, such as Scrum, and how to apply them in a QA context.
- Hands-on practice for agile framework
- Validate results and handle common failures
- Capture reusable patterns for the framework

02 Software testing fundamentals

- This includes an overview of different testing types (unit, integration, system, and acceptance testing), test design techniques, and test planning and execution.
- Hands-on practice for software testing fundamentals
- Validate results and handle common failures
- Capture reusable patterns for the framework

03 Test automation

- This includes an introduction to automated testing tools, test scripting, and test execution.
- Hands-on practice for test automation
- Validate results and handle common failures
- Capture reusable patterns for the framework

04 Defect management

- This includes an overview of how to track and report defects, as well as how to prioritize and manage them.
- Hands-on practice for defect management
- Validate results and handle common failures
- Capture reusable patterns for the framework

05 Test management

- This includes an overview of how to organize and manage testing activities, including test planning, test execution, and test reporting.
- Hands-on practice for test management
- Validate results and handle common failures
- Capture reusable patterns for the framework

06 Quality management

- This includes an introduction to quality management methodologies, such as Six Sigma, and how to implement them in a corporate setting.
- Hands-on practice for quality management
- Validate results and handle common failures
- Capture reusable patterns for the framework

07 Test methodologies

- This includes an overview of different testing methodologies such as V-Model, Waterfall Model, and Agile Scrum, and how they can be applied.
- Hands-on practice for test methodologies
- Validate results and handle common failures
- Capture reusable patterns for the framework

08 Test Case Design

- This includes an overview of how to design and write effective test cases, and how to select the right test cases for different types of testing.
- Hands-on practice for test case design
- Validate results and handle common failures
- Capture reusable patterns for the framework

09 Test Metrics

- This includes an overview of how to measure the effectiveness of testing, the metrics to track, and how to use them to improve testing processes.
- Hands-on practice for test metrics
- Validate results and handle common failures
- Capture reusable patterns for the framework

10 Best practices and standards

- This includes an overview of industry best practices and standards, such as ISO 9001, and how to implement them in a corporate setting.
- Hands-on practice for best practices and standards
- Validate results and handle common failures
- Capture reusable patterns for the framework

11 Testing for different platforms

- This includes an overview of how to test for different platforms like web, mobile, and embedded systems.
- Hands-on practice for testing for different platforms
- Validate results and handle common failures
- Capture reusable patterns for the framework