



Arfa Karim
Technology Incubator

Software Quality Assurance

Duration: 3 Months



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Modules

- Introduction to Software Quality Assurance
- Software Development Lifecycle (SDLC) & SQA
- Software Testing Fundamentals
- Test Planning & Documentation
- Manual Testing Techniques
- Automated Testing Tools & Frameworks
- Performance Testing & Load Testing
- Test Case Design & Management
- Defect Tracking & Management
- Continuous Integration & Continuous Testing
- Agile & DevOps in SQA
- Security Testing
- Mobile App Testing
- Test Automation Best Practices
- SQA Reporting and Metrics

Audience

- Quality assurance professionals & testers
- Software developers interested in quality assurance
- Project managers & team leads
- Anyone seeking a career in software quality assurance

Outcomes

- Understand the fundamentals of software quality assurance & its importance in SDLC
- Apply software testing techniques, create test plans, & document test cases effectively
- Use automated testing tools & frameworks to improve testing efficiency
- Conduct performance testing & load testing to ensure software scalability
- Implement security testing practices to identify vulnerabilities
- Manage defects, track them, & follow best practices in defect resolution
- Integrate quality assurance into Agile & DevOps processes

Eligibility Criteria

- Basic knowledge of computer software, websites & IT concepts