



Shaping Talents



Shaping Future

JOIN US

Become a Certified
Technology Expert

QUALITY ASSURANCE

QA TRAINING

About OPTnation

OPT Nation offers you a complete career transition by providing training and placement programs for Students and Jobseekers looking for a Career Success. OPTnation is a leading IT Training and Consulting company based in Virginia, USA. We provide best IT training and certification courses which is taken by professional certified experts. The training modules are designed as per the market requirement so that it helps student to conquer the Career Job Market and achieve their career goals with our placement assistance.



About the QA / Quality Assurance Course

OPTnation is offering the definitive training in Quality Analysis that can be taken by professionals and students to become a certified Quality Analyst. As part of the training you will learn the necessary skills and knowledge in Quality Analysis. The training will include software testing to assure there are no bugs, and make sure that the user interface is efficient so it will be easier for the customers to use the software. You will work on real world projects and case studies to help you get hands-on experience.

Why Take This QA / Quality Assurance Course?

The IT industry has always been on the leading edge and is expected to outperform other industry sectors with its future growth of 5-7% every year.

The QA careers are promising and rewarding in the IT industry with positive job growth and job security.

So, if you want to start, switch or enhance your career in the IT industry and you are new to Information Technology field, Software Quality Assurance and Engineering is one of the best options in this rewarding and promising job market.

Fast-track your career to take on more lucrative job roles and take your career to the next level.

For becoming a Quality Assurance Analyst / QA expert, choose our best Training and Placement Program.
If you are interested in joining the OPTnation team, please reach us here:

Course Content:

Module 1: Introduction

- Testing concepts
- QA tester
- Roles and Responsibilities
- Characteristics
- System design
- System specification
- Importance of software testing

Module 2: SDLC Models

- SDLC
- STLC
 - Phases of SDLC
 - Planning
 - Functional refining of requirements
 - Design
 - Implementation
 - Component test
 - Integration and system test
 - Alpha test
 - Beta test
 - Release
 - Production
 - Ongoing review
 - Retirement
- Fish model
- Waterfall model
- V model
- Prototype model

Module 3: Testing Strategy

- Creating test plan
- Test scenarios
- Test scripts
- Test summary report
- Test data
- Test execution

Module 4: Client-Server Architecture

- One tier
- Two tier
- Three tier
- N-tier

Module 5: Testing Methodology

- BVA – boundary value analysis
- ECP – equivalence class portioning

Module 6: Levels of Testing

- Unit level testing
- Module testing
- Integration level testing
- System testing
- UAT

Module 7: Testing Methods

- Conventional testing
- Un-conventional testing
- White-box testing
- Grey-box testing
- Black-box testing

Module 8: Kinds of Testing

- Sanity testing
- Smoke testing
- Installation testing
- Exploration testing
- Monkey testing
- UAT testing
- Alpha
- Beta
- Static testing
- Dynamic testing
- Regression testing
- Scalability testing
- Security testing
- Compatibility testing
- Usability testing
- Reliability testing
- Accessibility testing
- Ad-hoc testing
- End-to-end testing
- Heuristic testing

Module 9: Defects and Bug Reporting Process

- Difference between defect, bug, and error
- Life cycle of defect

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- Severity
- Priority
- Defect resolutions
- Defect management
- Defect tracking
- Defect conflict cycle
- Defect logging details
- Impact analysis

Module 10: Structure Query Language (SQL)

- Database
- RDBMS – relational database management system
- Normalizations
- SQL introduction
- DDL – Data Definition Language
 - Create table
 - Alter table
 - Drop table
- DCL – Data Control Language
- DML – Data Manipulation Language
- Primary and foreign keys
- Constraints
- Sorting
- Operators and Operand
- SQL IN clause
- SQL BETWEEN clause
- SQL VIEWS

Module 11: Basic Concept of Programming

- Operators
- Variables
- Comparison
- Loops
- If...Else
- Try...Catch

Module 12: Quality Standards

- CMM levels
- Six sigma

Module 13: QC – Quality Control

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- Introduction to QC
- Modules
 - Requirements
 - Test lab
 - Test plan
 - Defects
 - Planning and running tests
- QC defects
- QC reports and graphs

Module 14: QTP – Quick Test Professional

- Introduction to QTP
- Installation
- Recording scripts
- Local and global data tables
- Starting Quick Test
- Quick Test window
- Quick Test window layout
- Using Quick Test commands
- Working with test objects and object repositories
- QTP IDE and different record modes
- Object identification
- Data-driven testing
- Regular expressions
- Recovery scenario
- Parameterization
- Transaction points
 - AOM – automation object model

Module 15: Load and Performance Testing

- What is load testing
- Types of load testing
- What is performance testing
- Types of performance testing
- Loadrunner
- Introduction
- Architecture
- Installation
- Scripts
- Components
- Why is it required?
- Use of national robot

Module 16: Database Validations and Schema

- Introduction to database validation Techniques
- Database schema introduction
- Tricky techniques in testing

Module 17: Snagit Tool

- What is Snagit?
- Installation
- Use

Module 18: QA Projects



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