

Advanced Level Test Analyst 4.0 Course

Course Duration: 40 Hrs.

Course Code: AL-TA-4.0

Course Overview

The **Advanced Level Test Analyst 4.0** course is designed for experienced testing professionals who want to enhance their expertise in test analysis, test design, and quality assurance in modern software development environments. This course focuses on advanced testing techniques, requirement analysis, risk-based testing, and quality assurance practices aligned with Agile, DevOps, and digital transformation initiatives. It prepares participants to handle complex testing scenarios and deliver high-quality, user-centric software solutions.

What You'll Learn?

By completing this course, you will be able to:

- Analyze and review complex business and system requirements
- Apply advanced test design and specification-based techniques
- Perform effective risk-based testing and prioritization
- Evaluate functional and non-functional quality characteristics
- Improve defect detection, reporting, and prevention
- Collaborate effectively with stakeholders in agile and hybrid teams
- Strengthen decision-making skills related to software quality

Target Audience

This course is ideal for:

- Test Analysts and Senior QA Engineers

- Business Analysts involved in testing activities
- Quality Engineers and Test Consultants
- QA Leads responsible for test design and analysis
- Testing professionals seeking advanced-level competencies

Pre-Requisites

Participants should have:

- Strong foundation in software testing fundamentals
- Practical experience in test analysis and test design
- Familiarity with agile or iterative development approaches
- ISTQB Foundation Level certification or equivalent knowledge

Course Content

Module 1: Advanced Test Analysis Principles

- Role of the advanced test analyst
- Quality attributes and testing objectives
- Test analysis in modern development lifecycles

Module 2: Requirements Review and Static Testing

- Requirement quality characteristics
- Review techniques and defect prevention
- Managing changes and traceability

Module 3: Advanced Test Design Techniques

- Specification-based testing methods
- Use case and user story testing

- State transition and decision table testing

Module 4: Risk-Based and Business-Driven Testing

- Identifying and assessing test risks
- Prioritizing tests based on business impact
- Optimizing test coverage and effort

Module 5: Testing Quality Characteristics

- Functional suitability and usability testing
- Compatibility, accessibility, and reliability testing
- User experience considerations

Module 6: Defect Management and Continuous Improvement

- Advanced defect reporting and analysis
- Root cause analysis and prevention strategies
- Improving test effectiveness and maturity