Software Testing Training

Duration: **1 Day**

BILGINC IT Academy
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Overview

This training aims to equip participants with practical and theoretical skills in software testing to ensure software products meet quality, reliability, and user expectations. The training includes both manual and automated testing methods and tools.

Who Should Attend

- Software developers
- Test engineers
- QA professionals
- Project managers and business analysts
- All professionals in software-related roles

What You Will Learn

- Deep understanding of software testing concepts and terminology
- Ability to design test plans, write scenarios, and prepare test data
- Competence in manual and automated testing practices
- Skills in bug tracking, reporting, and regression testing
- Awareness of software quality assurance principles and metrics
- Hands-on experience with tools like Selenium, JUnit, and TestNG
- Familiarity with industry standards such as ISTQB

Outline

1. Fundamentals of Software Testing

- What is software testing and why is it important?
- Testing levels: Unit, integration, system, acceptance
- Testing types: Functional, performance, security, usability
- Software testing life cycle

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2. Test Planning and Design

- Creating test plans
- Writing effective test cases
- Preparing test data
- Defining test strategy

3. Test Execution

- Manual testing techniques
- Basics of automated testing
- Bug detection, reporting, and tracking

4. Test Automation

- Tools: Selenium, JUnit, TestNG
- Automation frameworks
- Coding test scenarios

5. Test Management

- Managing test teams, time, and budget
- Risk management in testing
- Process optimization and efficiency

6. Quality Assurance

- QA processes and methodologies
- Software quality metrics
- Adhering to industry standards (ISO, ISTQB, etc.)