



Courses

Software testing is an essential part of the software development process. It ensures that software meets the user's expectations, is error-free, and performs as expected. As the demand for software testing professionals continues to grow, it's becoming increasingly important to have the right skills and knowledge to succeed in this field. That's where software testing courses come in.

At (EST)ElearningSolutionsTesting, we offer a range of software testing courses designed to help you gain the essential skills and knowledge you need to advance your career in this field. Our courses are taught by experienced professionals who have worked in the industry and have a deep understanding of the challenges and opportunities in software testing.

MANUAL TESTING COURSE SYLLABUS

Overview:

Testing is a critical phase of [Software Development Life Cycle](#). Manual testing is the process in which the defects are identified, isolated, subjected for justification and ensure that the product is defect-free, in-order to produce quality product. However it requires the necessary knowledge such as about different types of manual testing, software development life cycle. In this course you will learn everything that is required from a good manual tester.

Course Objectives

- To understand what is testing?
- To understand Software development model.
- To Understand Architectures of software development.
- To learn the features of Software development models.
- To learn major concepts of the testing methodologies.
- To know different approaches to Testing.
- To understand of the types of testing.
- To plan and create test plan
- To execute the test plan.



- To create and manage test cases and defect profiles.
- To build strategies to track testing processes in the bug tracking systems.
- To do document of the test report in the testing enclosure document.

Pre-requisite / Target Audience:

- Basic Knowledge of Computer.
- Internet Connection.
- Beginners who want to start their career in Software Testing field.
- Already a tester: You can refresh all your testing basics and techniques and gear up for Certifications in Software Testing
- Fresh Graduates: If you have passed out of college recently, and looking for a job in QA/Testing Industry, then this course will definitely help you build skills required for your first job
- Non-Programmers: If you are interested in IT, but hate programming or find it difficult, then Testing allows you focus less on programming and more on analysis skills
- Non IT Professionals: If you are currently working in some other field, but interested in building a career in IT, then this course will help you step into the IT field.

<p style="text-align: center;">Module 1:</p> <p>Software Testing Introduction In this module you learn about Importance of testing. Why Testers need industry, software program/application/product: meets the business and technical requirements that guided its design and development works as expected.</p> <ul style="list-style-type: none"> <input type="checkbox"/> What is testing? <input type="checkbox"/> Importance of testing <input type="checkbox"/> Roles and Responsibilities <input type="checkbox"/> Principles of software testing <input type="checkbox"/> What is Quality? <input type="checkbox"/> How much testing is enough? <input type="checkbox"/> Differences between Manual and Automation Testing. 	<p style="text-align: center;">Module 2:</p> <p>Software Development Life Cycle In this module you learn about development procedure .SDLC stands for Software development life cycle. It is a process that describes how to develop, design and maintain the software project ensuring that all the functional & user requirement, goals and objective are met.</p> <p>1. SDLC Phases</p> <ul style="list-style-type: none"> <input type="checkbox"/> Requirements Phase. <input type="checkbox"/> Analysis Phase. <input type="checkbox"/> Design phase. <input type="checkbox"/> Coding Phase. <input type="checkbox"/> Testing phase. <input type="checkbox"/> Delivery and Maintenance Phase. <p>2. SDLC Models</p> <ul style="list-style-type: none"> <input type="checkbox"/> Waterfall Model. <input type="checkbox"/> V Model <input type="checkbox"/> Agile Model. <input type="checkbox"/> Prototype Model. <input type="checkbox"/> Spiral Model. 	<p style="text-align: center;">Module 3:</p> <p>Software Testing Methodologies In this module you learn about different types of software testing. Software Testing Methodology is defined as strategies and testing types used to certify that the application under test meets client expectations.</p> <ul style="list-style-type: none"> <input type="checkbox"/> White Box Testing. <input type="checkbox"/> Black Box Testing. <input type="checkbox"/> Grey Box Testing. 	
<p style="text-align: center;">Module 4:</p> <p>Test Case Design Techniques</p>	<p style="text-align: center;">Module 5:</p> <p>Levels of Testing In this module you learn</p>	<p style="text-align: center;">Module 6:</p> <p>Software Testing Life Cycle In this module learn about in</p>	<p style="text-align: center;">Module 7:</p> <p>QA & QC & Testing In this module you learn</p>



In this module you learn design test cases in such a way that we get the maximum coverage using an optimal set of Test cases. Focus on highlighting the various Methods and Techniques in designing test cases for both Black Box Testing and White Box testing.

Static Techniques:

- Informal Reviews
- Walkthroughs
- Technical Reviews
- Inspection

Dynamic Techniques:

Structural Techniques

- Statement Coverage Testing

- Branch Coverage Testing
- Path Coverage Testing

- Conditional Coverage Testing

- Loop Coverage Testing

Black Box Techniques

- Boundary Value Analysis
- Equivalence Class

Partition

- State Transition

Technique

- Cause Effective Graph
- Decision Table
- Use Case Testing

Experienced Based

Techniques:

- Error guessing
- Exploratory testing.

about levels of testing are frequently grouped by where they are added in the software development process, or by the level of specificity of the test.

1. Functional Testing

- Unit Testing
- Integration Testing
- System Testing
- User Acceptance Testing.
- Sanity/Smoke Testing.

- Regression Test.

- Retest.

2. Non Functional Testing

- Performance Testing.

- Memory Test

- Scalability Testing.

- Compatibility Testing.

- Security Testing.

- Cookies Testing.

- Session Testing.

- Recovery Testing.

- Installation Testing.

- Adhoc Testing.

- Risk Based Testing.

- I18N Testing.

- L10N Testing.

- Compliance Testing

detail description of Test Life Cycle, importance of Test Plan roles and responsibilities of Test Manager, Test Lead, Test Engineer,

1. Requirements

Analysis/Design

- Understand the requirements
- Prepare Traceability Matrix

2. Test Planning

- Object.
- Scope of Testing.
- Schedule.
- Approach.
- Roles & Responsibilities.
- Assumptions.
- Risks & Mitigations.
- Entry & Exit Criteria.
- Test Automation.
- Deliverables.

3. Test Cases Design

- Write Test cases
- Review Test cases
- Test Cases Template
- Types of Test Cases
- Difference between Test Scenarios and Test Cases.

4. Test Environment setup

- Understand the SRS
- Hardware and software requirements
- Test Data

5. Test Execution

- Execute test cases
- Defect Tracking and Reporting
- Types of Bugs.
- Identifying the Bugs.
- Bug/Defect Life Cycle.
- Reporting the Bugs.
- Severity and priority

6. Test Closure

- Criteria for test closure
- Test summary report

about QA & QC and How to log bugs in Project management tool, how to give severity, priority to bugs.

- What is Quality Assurance?

Assurance?

- What is Quality Control?
- Differences of QA & QC & Testing

Test Management with TFS Tool (Learn & Implement)

Defect Tracking Tools (Learn & Implement)

- TFS

Real-time Project involving most of the above concepts with following will be provided

- Product Abstract Document
- Requirement Specification Document

Step-by-Step procedure for Testing the project from ground up

- Complete Test plan, Test Cases, Traceability, Defect tracking report documents

At the end of the course participants will be able to

1. At the end of this course, students will be able to understand the complete cycle of Manual Testing.
2. Students will be seeing the live project and will be able to start the career in the Software Quality Assurance filed



7. Test Metrics

- What is Test Measurements?
- Why Test Metrics?
- Metric Life Cycle.
- Types of Manual Test Metrics.

AUTOMATION TESTING COURSE SYLLABUS

Automation (Python+ selenium)

Syllabus of python

1. Basics of python
- 2.variables& datatype
3. Operaters in python
- 4.strings
- 5.lists & tuples
- 6.dictionary & sets
- 7.conditional expressions
- 8.loops in python
- 9.functions & recursion
- 10.file i/o
- 11.object oriented programming (oops concepts- class,object,constructor, inheritance, encapsulation,abstraction,method overriding/overloading,operater overloading, access modifiers,types of methods.
12. Exceptional Handling

Syallabus of automation part

- 1.introduction of automation, selenium.
- 2.types automation tools
- 3.types of framework,IDES
- 4.inbuild framework- pytest
- 5.webautomation- handling webelement
6. Markers, fixtures,assert,
7. Excel operation,table operation
8. Types of wait
9. Excel with logging
10. Building hybrid framework- logs, screenshot,reports,testcases,testdata,utilities generation
- 11.version control tools

Course Overview & Benefits

Course Overview:

Our software testing courses cover a range of topics, from the fundamentals of software testing to advanced techniques and tools used in the industry. Here's an overview of some of the courses we offer:

Benefits of Our Software Testing Courses:

By taking our software testing courses, you'll gain a range of benefits, including:

Enhanced Skills: Our courses are designed to teach you the essential skills you need to succeed in software testing.



Introduction to Software Testing: This course covers the basics of software testing, including the testing process, test plans, and test cases.

Automated Testing with Selenium: In this course, you'll learn how to use Selenium, a popular open-source automation tool, to automate web application testing.

Performance Testing: This course focuses on testing the performance of software, including load testing, stress testing, and capacity testing.

Mobile Application Testing: In this course, you'll learn how to test mobile applications, including functional testing, usability testing, and compatibility testing.

Agile Testing: This course covers testing in an agile development environment, including test-driven development, continuous integration, and agile testing methodologies.

Career Advancement: With the right skills and knowledge, you'll be well-positioned to advance your career in software testing.

Practical Experience: Our courses are designed to give you practical experience working with industry-standard tools and techniques.

Industry-Recognized Certifications: Some of our courses offer certifications that are recognized by the industry, which can help you stand out to potential employers.

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