



PANYA TECHNOLOGIES

Technology to Live...

#184, Hennur Cross, Near: Indian Academy College, Kalyan Nagar, Bengalore-560043

Mobile No: 9741264243 Phone No: 080-42109791 www.panyatech.com

Manual Testing course contents

Duration: 50 Hours

1) Introduction

1. Software Testing
2. Necessary for testing
3. SDLC

2) SDLC Models

1. Waterfall model
2. Prototype model
3. V-Model
4. Agile Model

3) Testing-Methods

1. White Box Testing
2. Black Box testing

4) Gray Box testing Types of Testing (Black Box Testing)

1. Functional Testing
2. Integration Testing
3. System Testing
4. Acceptance Testing
5. Sanity Testing
6. Ad-hoc Testing

5) Non Functional Testing:

1. Compatibility Testing
2. Performance Testing
3. Load Testing
4. Volume Testing
5. Stress Testing
6. Security Testing

6) Testing Specialized

1. SOA testing
2. Database testing

7) Test Cases Design techniques

1. Error guessing
2. Equivalence Partition
3. Boundary Value Analysis
4. Domain Based Test Design

8) Test case Creation

- a. Test case Id
- b. Test steps
- c. Expected results

9) Reviews

1. Walkthroughs
2. Inspection
3. Peer Review

10) Test Life Cycle

1. Requirements
2. System study
3. Test plan
4. Test Cases
5. Traceability Matrix
6. Test case execution
7. Defect tracking
8. Test Summary Report

11) Test Plan Creation

1. Need of a Test plan
2. Test plan template
3. Sample Test plan

12) Checklists

1. Need of checklists
2. Creation of checklists

13) Defect tracking

1. Defect life cycle
2. Severity, priority
3. Defect tracking Tools
4. Defect report

5. Defect Tracking Sheet

14) Hands on (subject to availability)

1. Web based application Standalone

QTP

Duration: 60 Hours

Pre-requisite: *Knowledge in manual testing*

Introduction to Automation

VB Script (Basic)

1. Data Types
2. Operators
3. Built-in functions
 - Conversion functions
 - Verification functions
 - Date functions
 - Time functions
4. Statements
 - Conditional
 - Select Case
5. Loops
6. Arrays
7. String functions
8. Procedures
 - Sub procedures
 - Function procedures

VB Script (Advance)

1. FileSystemObject
2. ExcelApplication
3. InternetExplorer

1. Introduction
2. Recording modes
3. Object Repository
 - Local OR
 - Shared OR
4. Reporter class
5. Object Spy
6. Checkpoints
7. -User defined
8. -Built-in
9. Object identification
10. Actions
11. Step generator
12. Data Driven Testing
13. Parameterization
14. -Datatable
15. -Environment variables
16. Descriptive programming
17. Regular expression
18. Library functions
19. QTP AOM
20. Virtual mappings
21. Smart identification
22. Recovery scenarios
23. Database
24. Framework design & development



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C PROGRAMMING

Duration: 25 Hours

- + Introduction
- + Declaring Variables
- + Preprocessor Statements
- + Arithmetic Operators
- + Programming Style
- + Keyboard Input
- + Relational Operators
- + For and while loops
- + If, if else, relational operators
- + Switch/case
- + String and character handling
- + Data validation examples
- + Conditional expression operator
- + Arrays
- + Functions
- + Additional assignment operator
- + Sample programs so far
- + Handling user input and Validation
- + Formatters for printf() and scanf(), bit operations
- + Structures
- + Data conversion with itoa() and atoi()
- + Files
- + Pointers
- + Linked Lists
- + Dynamic Memory Allocation
- + Preprocessor Statements, Macros, Conditional Compilation, typedef
- + Enumerated Data Types
- + Unions
- + Register based variables, null statements and strings
- + Command Line Arguments
- + Pointers to functions
- + Formatters for characters and strings
- + System Calls
- + Suggested solutions to all problems
- + Advanced C, hardware accessing, longjump/ctrl break



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C++ Programming

Duration: 48 Hours

- ✦ Introduction to C++
- ✦ Variables and data types
- ✦ Expressions
- ✦ Constants
- ✦ Operators
- ✦ Type conversions
- ✦ Looping constructs
- ✦ Functions
- ✦ Default argument initializes
- ✦ Inline functions
- ✦ Arrays
- ✦ Pointers
- ✦ Enumeration types
- ✦ C++ classes
- ✦ The new and delete operators
- ✦ Friends to a class
- ✦ Reference types
- ✦ Function overloading
- ✦ Operator overloading
- ✦ Copy constructor
- ✦ Template classes
- ✦ File streams
- ✦ Inheritance



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Software Engineering

Duration: 15 Hours

- ✦ Overview of Software Engineering
- ✦ Critical Systems
- ✦ Software Processes
- ✦ Requirements
- ✦ System Models
- ✦ Project Management
- ✦ Software Design
- ✦ Development
- ✦ Verification and Validation
- ✦ Management