

Software Testing

Mission- To bring in Continuous improvement and achieve excellent customer satisfaction at all levels of software training and development, through its modular and systematic approach in accomplishing our goal of becoming a global giant.

Module 1: Manual Testing

- Basic Fundamentals of Testing
- Project Phases
- SDLC Process
- Sorts of Testing
- Testing Methodologies
- Principles of Testing
- Types of Testing

1. Static Testing
2. Dynamic Testing

- Levels of Testing

1. Unit Level Testing
2. Integration Testing
3. System Testing
4. UAT

- Environments
- SDLC Models

1. Water Fall
2. V-Model
3. RAD
4. Spiral
5. Prototype
6. Agile-Scrum Methodology

- Test Design Techniques

1. WBT
2. BBT

- STLC Process

1. Test Planning
2. Analysis Phase
3. Design Phase & RTM
4. Execution Phase
5. Reporting Phase
6. Closure
7. Quality Test Metrics
8. Quality Standards

Module 2: Database Testing

- Introduction to Database
- Introduction to MS-SQL Server
- Databases in MS-SQL Server
- Data Types in MS-SQL Server
- DDL Statements
- DML Statements
- Operators
- Other Operators
- Clauses
- Constraints
- Joins
- Alias
- Triggers
- Views
- Indexes
- Normalization
- Procedures
- Functions
- Sub Queries
- Database Checklist

Module 3: UFT (QTP)

(Unified Functional Tool)

- Introduction to Automation
- Introduction to UFT
- VB Scripting
- Recording Models
- QTP Object Models

1. Auto Learning Process
2. Pre Learning Process
3. Descriptive Programming

- Object Repository
- Object Identification Process
- Check Points
- Actions
- Functions
- Batch Testing

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- Synchronization
- Output Values
- Debugging
- Running Modes
- Random Number Testing
- Regular Expressions
- Recovery Scenario Manager
- Step Generator

1. Utility Objects
2. Functions
3. Test Object Methods

- File System Object
- Excel Object
- Data table Object
- Environment Object
- Dictionary Object
- Web Application Testing
- Web Table

- **Keyword Driven Frame Work**
- **Modularity Frame Work**
- **Data Driven Frame Work**
- **Hybrid Frame Work**
- **Case Studies**
- **Project**
- **HP Certification Preparation**

Module 4: ALM

(Application Life Cycle Management)

- Configuration Management
- Site Administrator
- Application Life Cycle Management

1. Requirements
2. Test Plan
3. Test Lab
4. Defects

- Manual Testing through ALM
- Automation Testing through ALM

- Generating Reports
- Case Studies

Module 5: Load Runner

Introduction to Performance Testing

- Introduction to Load Runner
- LR Components
- LR Terminology
- LR Testing Process
- HP Web Tours Overview
- Web Tours Application Requirements
- LR Protocols
- Virtual User Generator

1. Recording Modes
2. Creating V-User Scripts
3. Replay of Scripts

Correlations

- Manual Correlation
- Auto Correlation
- Parameterization
- Run Time Settings
- Actions
- Transactions
- Check Points
- Rendezvous Points

Controller

- Creating a Load Testing Scenario
- Define SLA
- Running the Load Test

Analysis

- Analyzing Scenario
- Generating Graphs & Reports
- Identifying Bottle Necks
- Case Studies Project