VIVEK IT SOLUTION

Software Testing Assistance

QA Training course Overview

- **GET The best QA training in Indore City**
- **We provide training with practical approach we cover 500+ program in QA**
- **We provide Job Support and Mock Interview Preparation on Our Session**
- **Complete session based on industry exposure.**

Manual Testing Course

- Introduction Session

  ❖ **What is Testing**
  ❖ **Scope of Testing, Why Testing is Required**
  ❖ **Explain Manual Testing and Automation Testing**
  ❖ **Principle of Testing**
  ❖ **Difference between Manual Testing and Automation Testing**

- Software Testing Models & SDLC

  ❖ **What is Models**
  ❖ **Waterfall Model**
  ❖ **Spiral Model**
  ❖ **V-Model**
  ❖ **Incremental Model and Iterative Model**
  ❖ **Prototype Model, RAD Model**
  ❖ **What is AGILE Model**
  ❖ **What is SRS, FRS and BRS**
  ❖ **CASE STUDY OF ANY Project**

- Software Testing Life Cycle

- ❖ **What is STLC**
- ❖ **Different Phase of STLC**
- ❖ **What is Test Scenario**
- ❖ **What is Test Cases & How to design Test Case Report using Excel**
- ❖ **What is Bug, Defect, Error**
- ❖ **What is Bug Priority & Severity**
- ❖ **What is Bug Report, Create Bug Report in Excel sheet**

- Software Testing Life Cycle, Design Test Case Report

- ❖ **What is STLC**
- ❖ **Different Phase of STLC**
- ❖ **What is Test Scenario**
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- ❖ **What is Bug Report, Create Bug Report in Excel sheet**
- ❖ **What is RTM**
- ❖ **What is TEST Matrix**
- ❖ **How to Create TEST PLAN REPORT**
- ❖ **Check List for HTML Component**

- JIRA CRM

- ❖ **What is JIRA**
- ❖ **JIRA Bug Tracking Template**
- ❖ **JIRA SCRUM TEMPLATE**
- ❖ **JIRA KANBAN TEMPLATE**
- ❖ **WHAT IS SPRINT, STORY, JIRA BOARD**
- ❖ **Create Bug Report in JIRA Software Tool**

- Type of Testing

- ❖ **What is Functional, Non Functional and Maintenance Testing**
- ❖ **What is Black box, White box and Gray box Testing**
- ❖ **What is Alpha, Beta Testing and Gamma Testing**
- ❖ **What is API Testing, Discuss API Testing in depth**
- ❖ **What is Postman and Swagger Tools**
- ❖ **Http End Point in API Testing**
- ❖ **What is System Testing**
- ❖ **What is Integration Testing, Type of Integration Testing**
- ❖ **What is Smoke & Sanity Testing**

- ❖ **What is Unit Testing**
- ❖ **What is Performance Testing, Type of Performance Testing**
- ❖ **Load Testing, SOAK TESTING, VOLUME TESTING, ENDURANCE TESTING**
- ❖ **What is Boundary Value Testing**
- ❖ **What is Globalization and Localization Testing**
- ❖ **What is Random Testing, explain Monkey and Gorilla Testing**
- ❖ **What is UAT Testing**
- ❖ **What is End to End Testing?**
- ❖ **What is Regression Testing?**
- ❖ **What is Migration Testing**
- ❖ **Compatibility Testing, Component Testing**
- ❖ **Comparison Testing**
- ❖ **Security Testing, Type of Security Testing**
- ❖ **Scalability Testing, Regularity & Compliance Testing**
- ❖ **Concurrence Testing, Fuzz Testing**
- ❖ **UI Testing, GUI Testing**
- ❖ **State Transition Testing , Decision Table Testing**

- • Create Test Case Report for

- ❖ **Login Form Test Case Report**
- ❖ **Search Form Test Case Report**
- ❖ **Admin Dashboard Test Case Report**
- ❖ **Security Test Case Report**
- ❖ **Performance Testing Test Case Report**
- ❖ **Database testing Test Case Report**

- • Tools covered in Software Testing

- ❖ **Postman & Swagger**
- ❖ **JIRA CRM**
- ❖ **XAMPP SERVER knowledge for MYSQL**
- ❖ **GIT & Github**
- ❖ **MYSQL YOG phpmyadmin for Database Testing**
- ❖ **AWS Cloud Introduction**

Core Java Course Content

- **Introduction Session**

  ❖ **What is Java**
  ❖ **Java History, Introduction & Java Scope**
  ❖ **Type of Application Created by Java**
  ❖ **Comparison of Java with C, CPP & Java**
  ❖ **Why Java is Most Popular Programming Language in IT World**

- **Java Installation and Software Tools**

  ❖ **Java Installation**
  ❖ **What is IDE, About Eclipse and Netbeans, VS Code, IntelliJ**
  ❖ **Interpreters vs Compilers**
  ❖ **How to Set Path in Java (Temp Path & Permanent Path)**
  ❖ **How to Compile and Execute Java Code under Command Prompt**
  ❖ **Working with Eclipse**
  ❖ **What is JDK & JRE & JVM & JIT & JNI**
  ❖ **JVM Architecture**
  ❖ **How to Write Comment in Java**
  ❖ **Create First Hello World of Program in Java & provide complete explanation**
  ❖ **How many types method used in java for printing purpose**

- **Operator in Java**

  ❖ **What is Operators**
  ❖ **Types of Operator**
  ❖ **JAVA Arithmetic Operators**
  ❖ **JAVA Comparison Operators**
  ❖ **JAVA Assignment Operators**
  ❖ **JAVA Bitwise Operators**
  ❖ **JAVA Logical Operators**
  ❖ **Ternary Operator**

  ❖ **JAVA Operators Precedence**

- **Variable, Constant, Literals & Data Types**

  ❖ **What is Variables, Constant and Literals**
  ❖ **Type of Variables (Static & Non Static)**
  ❖ **Memory Management according to variable**
  ❖ **Assigning Values to Variables, Constant**
  ❖ **Data types**

- ❖ **Primitive Data type & Non Primitive Data type**
- ❖ **Implicit & Explicit Type Conversion**
- ❖ **Wrapper Classes Concept in Java**
- ❖ **What is Object Class in Java**
- ❖ **Conversion Method and Type Casting**
- ❖ **Up casting and Down casting**
- ❖ **Naming Convention in Java according to different cases**

- • **Loops and Conditional Statements**

- ❖ **if statements**
- ❖ **..else statements**
- ❖ **nested if statements, Ladder if else, Multiple If**
- ❖ **Switch Statements and Nested Switch Statements**
- ❖ **while loop, while else**
- ❖ **for loop, for else**
- ❖ **nested loops**
- ❖ **Loop Control Statements**
- ❖ **break statement**
- ❖ **continue statement**

- • **Array Concept in Java**

- ❖ **What is Array, Advantage of Array & Disadvantage of Array**
- ❖ **Type of Array (Single, Multi & Jagged Array)**
- ❖ **Explain Char Array and String Array**
- ❖ **What is Object Array in Java**
- ❖ **Searching and Sorting Elements in Array**
- ❖ **Create Stack and Queue in Array**
- ❖ **What is Array class in Java, Discuss Predefine methods of Array Class**
- ❖ **Array Iteration using foreach loop**

- • **OOPs Concept in Depth**

- ❖ **Class and Object, Polymorphism, Encapsulation, Abstraction**
- ❖ **Static Block, Init Block Explanation**
- ❖ **Access Specifier, Access Modifier(Instance, Static,final,abstract)**
- ❖ **Constructor and their types**
- ❖ **Inheritance and their types**
- ❖ **Polymorphism and their types**
- ❖ **Object Array using class**
- ❖ **IS A Relationship and Has a Relationship**
- ❖ **Interface and Abstract class in Java**
- ❖ **Super keyword and this keyword in Java**

- String, String Builder and String Buffer Class in Java

  ❖ **What is String**
  ❖ **What is String pool memory and Heap Memory**
  ❖ **What is String instance and String Object**
  ❖ **Discuss 10 predefine functions of String**
  ❖ **What is String builder and Buffer**
  ❖ **Difference between String, String Buffer and String Builder**

- Exception Handling in Java

  ❖ **What is Exception , What is Error**
  ❖ **Type of Exception and Type of Error**
  ❖ **What is Checked and Unchecked Exception**
  ❖ **What is Try—catch and finally**
  ❖ **What is throw, throws and Throwable**
  ❖ **What is User define Exception**

- File Handling Concept in Java

  ❖ **What is File, Directory, Package**
  ❖ **Create, Write and Read Text file**
  ❖ **Create, Write and Read Binary file**
  ❖ **What is InputStreamReader Class**
  ❖ **What is Bufferredreader and BufferedWriter class**
  ❖ **Write Object and Read Object**
  ❖ **What is Serialization and Deserialization Concept in Java**
  ❖ **How to delete content from file**
  ❖ **How to create folder and put file under folder**

- Threading Concept in Java

  ❖ **What is Thread**
  ❖ **Thread Life Cycle**
  ❖ **Thread implementation using Thread Class and Runnable Interface**
  ❖ **What is Thread Synchronization**
  ❖ **What is Join(), Wait(), Yield(), run(), start(), notify(), notify all() in Java**
  ❖ **Difference between sleep() and wait() in Java**
  ❖ **Create Game using Thread**

- Collection Concept in Java

- ❖ **What is Collection, Explain hierarchy of Collection**
- ❖ **What is difference between Collection and Collections**
- ❖ **What is List, Set, Queue and DeQueue**
- ❖ **Discuss Classes of List , Set, Queue and Dequeue**
- ❖ **What is Generic Class**
- ❖ **What is Iterator and ListIterator**
- ❖ **What is Comparable and Comparator Interface**
- ❖ **What is Map Interface, discuss classes of Map Interface**
- ❖ **How to Define ArrayList Inside Map**
- ❖ **Difference between Vector and ArrayList, HashMap and HashTable**
- ❖ **How to Create Synchronized ArrayList**
- ❖ **Which is Faster to Access**

Automation Testing Course

- Introduction Session

- ❖ **What is Automation Testing**
- ❖ **Scope of Automation Testing, Why Automation Testing is Required**
- ❖ **Explain Manual Testing and Automation Testing**
- ❖ **What is Selenium**
- ❖ **Component of Selenium**

- Selenium IDE

- ❖ **What is IDE**
- ❖ **Explain of IDE Options**
- ❖ **Explain Locator of IDE**
- ❖ **Explain Command of IDE**
- ❖ **Explain Record and Play Editor Tools**

- Selenium Web Driver Locator

- ❖ **What is Locator**
- ❖ **Name and ID Locator**
- ❖ **Classname Locator and Tagname Locator**
- ❖ **CSS based Locator (Tagname, Attribute name)**

- ❖ **XPATH Locator**
- ❖ **What is Absolute XPATH and Relative XPATH**
- ❖ **What is linkText and partialLinkText Locator**
- ❖ **Locator Priority**

- ● Selenium Web Driver

- ❖ **What is Web Driver**
- ❖ **Web Driver Architecture**
- ❖ **Get command in Web Driver**
- ❖ **Navigation Command in Web Driver**
- ❖ **Switch Command in Web Driver**
- ❖ **Pop & Alert Handling**
- ❖ **Wait Command in Web Driver**
- ❖ **Implicit, Explicit & Fluent Wait**

- ● Action & Actions in Web Driver

- ❖ **What is Actions and Action**
- ❖ **Discuss various Events for Drag and drop, Drag and drop by**
- ❖ **Click and hold, double click, contextClick Keydown and Keyup events**
- ❖ **Move to element**
- ❖ **Handle Keyboard and Mouse Events**
- ❖ **How to handle Multiple Events**

- ● How to work with Table

- ❖ **How to access table rows and columns**
- ❖ **How to count number of rows and columns**
- ❖ **How to get specific column value**
- ❖ **What is static table and Dynamic Table**

- ● How to Get Screenshot

- ❖ **How to get screenshot of any pages**
- ❖ **How to get screenshot of any section of page**

- ● TESTNG

- ❖ **How to install TESTNG**
- ❖ **What is TestNG, Advantage and Disadvantage of TestNG**
- ❖ **What is Annotation**
- ❖ **Difference between Web Driver and TestNG**
- ❖ **How many ways to install TESTNG in Machine**

- ❖ **TESTNG Annotation BeforeTest, Test and After Test**
- ❖ **BeforeMethod and AfterMethod Annotation**
- ❖ **What is Test Priority**
- ❖ **Before Group and AfterGroup annotation**
- ❖ **Run Groups using testing.xml file**
- ❖ **What is Testsuite, how to run multiple classes using suite**
- ❖ **Beforeclass and Afterclass annotation**
- ❖ **Beforesuite and AfterSuite annotation**
- ❖ **Data provider in TestNG**
- ❖ **How to manage Integration Testing and System Testing using TestNG**
- ❖ **Generate Report in TestNG**

- ● **MAVEN**

- ❖ **What is Maven**
- ❖ **What is POM and POM file structure**
- ❖ **Maven Life Cycle**
- ❖ **How to create Maven Project and Execute Web Driver Script**
- ❖ **How to create MAVEN Project and Execute TESTNG Script**

- ● **Selenium Framework**

- ❖ **What is Framework, Advantage of Framework**
- ❖ **Data driven framework**
- ❖ **What is Keyword based Framework**
- ❖ **What is Hybrid Framework**
- ❖ **Which is best framework**

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