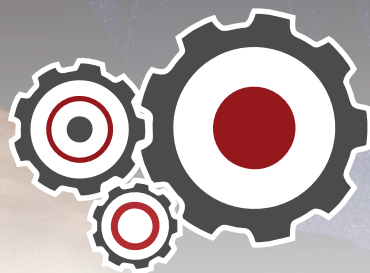


CELEBRATING
12 YEARS

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MANUAL TESTING

Course Content

Section 1 Testing basics

- ⇒ Introduction to Software Testing Industry
- ⇒ What is Quality?
- ⇒ Why we need to deliver Quality Software?
- ⇒ Why we need to do Software Testing?
- ⇒ When to start Testing?
- ⇒ What are the Testing Techniques?
 - a) Static Testing
 - b) Dynamic Testing
- ⇒ Explain differences
 - a) Static Testing and Dynamic Testing?
 - b) Verification vs. Validation
 - c) Prevention vs. detection
 - d) Software Quality Assurance vs Quality Control.
- ⇒ What are the Testing Methodologies?
 - a) White box Testing
 - b) Black box Testing
 - c) Grey box Testing
- ⇒ Explain differences between Black box Testing and White box Testing?
- ⇒ Explain below Terminologies?
 - a) Mistake
 - b) Error
 - c) Bug
 - d) Defect
 - e) Failure
- ⇒ Explain Testing Principles?

Section 2 Testing classification

- ⇒ Black box testing categories
 - a) Functional Testing
 - b) Non-Functional Testing
 - > Performance testing
 - > Security testing
 - c) Usability testing
 - d) compatibility Testing

- ⇒ Testing Methodologies
 - a) Smoke Testing
 - b) Sanity Testing
 - c) Retesting
 - d) Regression Testing
 - e) Exploratory testing
 - f) Adhoc Testing
 - g) Localization Testing
- ⇒ Levels of Testing
 - a) Unit Testing
 - b) Integration Testing
 - c) System Testing
 - d) Acceptance Level
 - > Alpha Testing
 - > Beta Testing

Section 3 STLC

- ⇒ Test Strategy
- ⇒ Test Plan
- ⇒ RTM
- ⇒ Story Analysis (Requirement Analysis)
- ⇒ Test case Design
- ⇒ Test case Review
- ⇒ Test Execution
- ⇒ Defect Reports
- ⇒ Test case Design Techniques
 - a) Equivalence Partitioning
 - b) Boundary Value analyses
 - c) Error Guessing
- ⇒ Test case Review Techniques
 - a) Peer Review
 - b) Formal Review
 - c) Walkthrough
- ⇒ Test Case Execution
- ⇒ Test Result
- ⇒ How to raise a defect
- ⇒ Defect Life Cycle
- ⇒ Priority VS Severity
- ⇒ Triage Team
- ⇒ Deferred defects
- ⇒ Defect Reports

Section 4 Agile Methodology

- ⇒ Compare Agile with waterfall Model
- ⇒ Compare Agile with V Model
- ⇒ Benefits of Agile Methodology
- ⇒ Drawbacks of Agile Methodology
- ⇒ Introduction to Scrum Framework
- ⇒ What is scrum?
- ⇒ Discussion on Sprint Planning
- ⇒ Discussion on story cards
- ⇒ Components of Scrum Framework
 - a) Scrum Roles
 - b) Scrum Artifacts
 - c) Scrum Events
- ⇒ Scrum Roles and Responsibilities
 - a) Product Owner
 - b) Scrum Master
 - c) Scrum Development team
- ⇒ Scrum Artifacts
 - a) Product Backlog
 - b) Sprint Backlog
 - c) Burn down Chart
- ⇒ Scrum Events
 - a) Sprint Planning Meeting
 - b) Daily Scrum Meeting
 - c) Sprint Review Meeting
 - d) Sprint Retrospective Meeting
- ⇒ Tools Usage in Agile
 - a) Project Management Tool - JIRA

Section 5 SDLC Phases

- ⇒ Introduction to Software Development Life Cycle (SDLC)
 - a) Plan
 - b) Analyze
 - c) Design
 - d) Development
 - e) Testing
 - f) Implementation
- ⇒ Waterfall Model
- ⇒ Advantages and Drawbacks of Waterfall Model

Project Essentials

- ⇒ Project Name
- ⇒ Project Description
- ⇒ Client Name
- ⇒ Client Description
- ⇒ Process Followed in the Project
- ⇒ Tools Used in the Project
- ⇒ Environments in the Project
- ⇒ Team Size
- ⇒ Roles and Responsibilities
- ⇒ Project Architecture
- ⇒ Testing Life Cycle in the Project
- ⇒ Product Backlog
- ⇒ Stories from Customer
- ⇒ Story Analysis
- ⇒ Query Tracker
- ⇒ Requirement Traceability Matrix
- ⇒ GUI Test cases
- ⇒ System scenario's
- ⇒ Review Process in Project
- ⇒ Test case Execution
- ⇒ Defect Life Cycle in Project
- ⇒ Role of JIRA in project
- ⇒ Weekly status Report
- ⇒ Status Mails
- ⇒ Regression Testing in Project
- ⇒ Exploratory Testing in Project
- ⇒ Bugs Identified in Project
- ⇒ Challenges Identified in Project
- ⇒ Issues in Project
- ⇒ Test case Design techniques involved in project
- ⇒ How you executed the Test cases in JIRA
- ⇒ Scenario based Questions from Project
- ⇒ Practical Sessions



Introduction

- ⇒ What Is Database?
- ⇒ What is Database Management System (DBMS)?
- ⇒ What is Relational Model ?
- ⇒ Introduction to RDBMS .
- ⇒ Brief on E.F Codd .

Datatypes and Constraints

- ⇒ What are Datatypes ?
- ⇒ Types and Examples .
- ⇒ How to use .
- ⇒ What are Constraints?
- ⇒ Types and Examples.
- ⇒ How to use.

Statements in SQL

- ⇒ Data Definition Language (DDL)
- ⇒ Data Manipulation Language (DML)
- ⇒ Transaction Control Language (TCL)
- ⇒ Data Control Language (DCL)
- ⇒ Data Query Language (DQL)

Software installation

- ⇒ Installing and set up of software
- ⇒ Working on Oracle 10g.

Data Query Language (DQL)

- ⇒ Select
- ⇒ From
- ⇒ Where
- ⇒ Group By
- ⇒ Having
- ⇒ Order By

Operators

- ⇒ Types and Examples

Functions in SQL

- ⇒ Single Row Functions
- ⇒ Multi Row Functions
 - Max ()
 - Min ()
 - Sum ()
 - Avg ()
 - Count ()

Sub Query

- ⇒ Introduction to Sub Query
- ⇒ Working of Sub Query
- ⇒ Query Writing and Execution
- ⇒ Types of Sub Query
 - a) Single Row Sub Query
 - b) Multi Row Sub Query
- ⇒ Nested Sub Query

Pseudo Columns

- ⇒ Introduction on Pseudo Columns
- ⇒ ROWID
- ⇒ ROWNUM
- ⇒ Working and Usage.

JOINS

- ⇒ What Is Join?
- ⇒ Types of Joins.
- ⇒ Cartesian Join
- ⇒ Inner Join
- ⇒ Outer Join
- ⇒ Self-Join
- ⇒ Queries and Examples

Co- Related Sub Query

- ⇒ Working and Examples

Data Definition Language (DDL)

- ⇒ Create
- ⇒ Rename
- ⇒ Alter
- ⇒ Truncate
- ⇒ Drop

Data Manipulation Language (DML)

- ⇒ Insert
- ⇒ Update
- ⇒ Delete

Transaction Control Language (TCL)

- ⇒ Commit
- ⇒ Save point
- ⇒ Rollback

Data Control Language (DCL)

- ⇒ Grant
- ⇒ Revoke

Normalization

- ⇒ Introduction to Normalization
- ⇒ Types of Normal Forms
- ⇒ Examples

E R Diagrams

- ⇒ Introduction to ERD
- ⇒ Examples.

