



Training Day wise breakup

Foundation – 4 Days

Day 1

- Software Engineering
 - Different types of model
 - Agile
 - Scrum

Day 2

- Software Testing
 - Types of Testing
 - Manual Testing
 - Automation Testing
 - Test cases

Day 3

- Support and Configuration Management
 - Service configuration management
 - Features
 - Methodology
- Service configuration
- Discussion on the different deployment tools
 - Docker
 - Jenkins
 - Kubernetes

Day 4

- Agile
 - Agile Overview, Roles in Agile,
 - What is User Story
 - Agile Principles
 - What is a Standup?
 - What is a Product Backlog?
 - Agile Planning Overview

Foundation Assessment



Unix – 5 Days

Day 1

- Introduction to Unix
- Working with Linux OS
- Linux Concepts
- Linux System and Linux GUI and Desktop Ops
- CLI, System Configuration
- Common Applications and Command Line Operations
- Working with Processes and File Operations

Day 2

- File Management
 - Creating file
 - Creating directory
 - Copy
 - Move
 - Rename
- Using Text Editors

Day 3

- Filters
 - Grep
 - Cut
 - Tr
 - More
 - Less
 - Head
 - Tail
- Find
- Permissions
- Creating users, groups

Day 4

- The Bash Shell and Basic Scripting, Shell Environment, #!,
- ps Utility, Processes and Scripting on the BASH shell
- PATH variable and sub-shell scripting
- Parameters and Command substitution
- .bash_profile, system profile scripts
- Using shell Commands

Day 5

- Constructs and conditional statements
- Variables
- loops
- Special variables \$\$, \$#, \$

Linux Assessment



SQL & NoSQL – 5 Days

Day 1

- Introduction SQL
- DQL
- Select
 - Where
 - Order by
 - Aggregate functions
 - Group by
 - Having
- Joins

Day 2

- Sub Queries
- DDL
 - Create
 - alter
 - drop
- Constraints
- DML
 - Insert
 - Delete
 - Update

Day 3

- Normalization
 - First normal form
 - Second normal form
 - Third normal form
- De-normalization

Day 4

NoSQL

- Introduction
- NoSQL Databases
- Installing and Configuring MongoDB
- Data storage, documents, and types
- Querying and working with data
- Working with operators and collections

Day 5

- Advanced querying
- CRUD functionality in MongoDB
- Case study on SQL with a specific Domain

RDBMS Assessment



Java – 10 Days

Eclipse, STS

Day 1

- Introduction to Java
- Eclipse (Overview, debugging technique)
- Java Data types
- Variables, Operators
- Conditional Statement
- Loops
- Array

Day 2

- Object Oriented Programming with Java
 - Classes
 - Objects
 - Functions
 - Constructors
 - Modifiers
 - Relationships
 - Has-a
 - Is-a

Day 3

- Abstract
- Interface
- Polymorphism
- Packages

Day 4

- Exceptions (Compile & Run time)
- Custom Exceptions
- Wrapper Classes

Day 5 - 6

- Collections (Arrays, List, Map, set, iterator, Hashing)
- Generics

Day 7

- Java - IO Overview
- Junit

Day 8 - 9

- JDBC
- Maven

Day 10



- Case study on Java

Java Assessment

Web Programming – 10 Days

Day 1

- HTML5
 - Tags
 - Elements
 - Tables
 - Link
 - Image
 - Semantics Tags
 - Storage
 - Canvas
 - Googlemap
 - Forms

Day 2

- CSS3
 - Stylesheet
 - Selector
 - ID
 - Class
 - HTML
 - Inheritance
 - Style Properties

Day 3

- Java Script
 - Dialog Box
 - Conditional Statement
 - Loop statement
 - Array
 - DOM

Day 5

- Spring Core
 - Introduction
 - Dependency Injection
 - Constructor
 - Setter
 - Annotation based

Day 6

- Spring JDBCTemplate



Day 7

- Spring MVC framework
- DispatcherServlet, Handler mappings, Resolving views

Day 8

- JPA

Day 9

- RestAPI
- Spring Boot
- Spring Boot JPA, MongoDB

Day 10

- Swagger
- Introduction to SOA and Microservices
- Future technologies
- Devops
- CI/CD

Tools: POSTMAN

Web and Spring Assessment



SOA – 12 Days

Days 1 - 3

- SOUP UI
 - Web Service Testing
 - Introduction to SOAPUI
 - SOAP UI Installation and Configuration: Complete Guide
 - SoapUI Tutorial: Create a Project, Test Suite, TestCase
 - Assertions in SoapUI

SOA

Overview of Oracle SOA

SOA to a Layman

Overview of Oracle SOA

Real Time Examples

Advantages in using Oracle SOA

Why Oracle SOA is Important

Day 4

XPATH

- Overview
- XPath - Expression
- Query language for xml
- XPath Nodes
- XPath - Absolute Path
- XPath Relative Path
- XPath - Axes
- XPath - Operators
- XPath - Wildcard
- XPath - Predicate

Day 5 - 8

Apache JMeter for conducting Web page , Database server, FTP, JMS and Web Services Performance Testing.

- Introduction Performance Testing
- Introduction to Apache JMeter
- Elements of JMeter Test Plan
- Building a JMeter Test Plan
- Recording Tests Using JMeter
- Enhancements in Test Scripts
- JMeter Result Analysis
- Running Multiple Scripts with JMeter
- Different Types of JMeter Test Plans
- Jmeter Distributed (Remote) Testing
- JMeter Functions, Variables and Regular Expressions
- JMeter Best Practices



Day 9 – 10

- Automation Testing Tool
 - Basics of automation testing – why, when and how to perform automation testing
 - Factors for choosing a particular tool
 - An overview for the major functional testing tools
 - Overview of Test management and bug tracking tools

Day 11 – Day 12

Paas, Saas, AWS,
Cloud introduction

- Definition of cloud computing
- Categorization of the various service types
- Drivers of Cloud Solutions
- Handling cloud security
- Business Demands
- Deployment of software solutions and web applications
- Exploring Platform as a Service (PaaS) – Different
- Evaluating the architecture

SOA Assessment