**Day 1**

Module 1

DevOps Essentials

Topics

✓ Why DevOps?

✓ What is DevOps?

✓ DevOps Market Trends

✓ DevOps Engineer Skills

✓ DevOps Delivery Pipeline

✓ DevOps Ecosystem

Module 2

Build Tools – GIT and Jenkins

Topics

✓ Introduction to Gitblit

✓ Gitblit File workflow

✓ Important GIT Commands

✓ Introduction to Continuous Integration and Jenkins

✓ Plugin Management in Jenkins

✓ Various scenarios of Building Delivery Pipeline

Module 3 Build and Test Automation

Topics

✓ Build Setup in Jenkins

✓ Test Automation

✓ Security in Jenkins

✓ Notification System

**Day 2**

Module 4

Containerization using Docker

Topics

✓ What and Why of Containers

✓ Introduction to Docker

✓ Docker Fundamentals

✓ Image Distribution

✓ Docker Containers

Module 5

Docker Commands and Use-cases

Topics

✓ Docker Networking

✓ Docker Volumes

✓ Docker Files

**Day 3**

Module 6

Topics

✓ Ansible introduction

✓ Ansible Architecture

✓ Basic Ansible Terminologies

✓ Ansible Language Constructs

✓ Ansible Environment

✓ Ansible Classes

✓ Ansible Template

Module 7

Continuous Monitoring using Nagios

✓ Introduction to Nagios

✓ Nagios Plugins, Nagios Objects

✓ Nagios Commands

✓ Nagios Notification

Module 8

Jenkins with Sonarqube Integration

✓ Sonarqube –static code analysis and set quality gates