**DevOps Fundamentals**

* System Development Life Cycle(SDLC)
* SDLC Models
* Agile Methodology (Backlog, Sprint, Scrum Master )

**Git Repository**

* Tracking File Changes
* Reset from stage
* Ignoring Files in Git
* Reverting to Earlier Commits
* Deleting Files in Git
* Merging File Changes in Git
* Issue Tracking in GitHub
* Fast Forward and Recursive Merge
* Recursive MergePreview
* Resolving Merge Conflicts in Git
* Stashing in Git
* Rebasing in Git
* Cloning in Git

**Build Automation with Maven**

* Understanding the lifecycle and dependencies of Maven
* Working with the Project Object Model (POM)
* Creating a sample project with Maven
* Writing tests in Maven

**Unit testing with Junit**

**JUnit Intro**

* Rules of unit testing
* Obtaining, setup, configure JUnit
* Unit test execution

**JUnit API**

* Test case/class
* Test methods
* Assert methods
* Test suite
* Test runner

**Software Testing**

* Why unit testing
* Types of tests
* Types of unit tests
* Black vs. white box testing
* Code coverage
* Testable code
* Test-driven development

**Distributed Builds with Jenkins**

* Agent Machines
* Configure Jenkins Master
* Configure Projects
* Conclusion

**Continuous Delivery and the Jenkins Pipeline**

* Continuous Delivery
* Continuous Delivery (cont'd)
* DevOps and Continuous Delivery
* Continuous Delivery Challenges
* Continuous Delivery with Jenkins
* The Pipeline Plugin
* The Pipeline Plugin (cont'd)
* Defining a Pipeline
* A Pipeline Example
* Pipeline Example (cont'd)
* Parallel Execution
* Creating a Pipeline
* Invoking the Pipeline
* Conclusion