

DevOps and SRE Fundamentals: Implementing Continuous Delivery (LFS261)

Duration: 4 Days

Hands-On Format: This hands-on class is approximately 80/20 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

Course Outline

Chapter 1. Continuous Delivery Concept

Chapter 2. Setup: Creating the Learning Environment

Chapter 3. Basics of Container Operations with Docker

Chapter 4. Revision Control with Git

Chapter 5. Setting Up Continuous Integration with Jenkins

Chapter 6. Pipeline-as-a-Code with Jenkinsfile

Chapter 7. Using Docker to Simplify CI pipelines

Chapter 8. Packaging Applications with Docker

Chapter 9. Continuous Delivery to Dev with Docker Compose

Chapter 10. Continuous Automated Testing

Chapter 11. Running Apps at Scale with Kubernetes

Chapter 12. Continuous Deployment with Spinnaker