

CI/CD for Android Developers

Duration: 3 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.

Prerequisites: Android Development Experience is Required

Module 1 – DevOps

What is DevOps
Why use DevOps
DevOps Lifecycle

Module 2 – GitHub

Introduction to Git
Working with Git
Difference between Git and GitHub
Initialize Repository
Commit Repository
Working with Remote Repository
Git Tag
Git Branches
Pull Requests

Module 3 – Introduction to App Center

Introduction to App Center
Creating an App Center Account
Connecting App Center
Crashing the Application
Tracking All Kinds of Events
Tracking Events with Better Context

Module 4 – Continuous Integration

Why use Continuous Integration
Working with Feature Branches
First CI Build – Android
Adding Checks to Pull Requests
Cleaning up the Connections
Using Checks to Protect Branches
Complete CI Flow

Module 5 – Continuous Quality

Introduction to Continuous Quality
Prepare Solution for Tests
Installing the App Center CLI
Uploading the Android Tests
Running Automatic Tests

Module 6 – Continuous Delivery

Introduction to Continuous Delivery
Creating an Android Distribution Group
Configuring Android Continuous Delivery
Installing from App Center
Creating a First Manual Store Release
Continuous Delivery to the Play Store
Continuous Integration / Continuous Delivery