

Git and GitLab Essentials

Price: 1895

Duration: 2 days

Delivery Methods: Virtual

Overview

This course covers the fundamentals necessary to utilize Git and GitLab for the management of software development lifecycling using continuous integration and continuous delivery (CI/CD). At its core, GitLab offers a web-based Git repository manager featuring issue tracking, analytics, and a wiki. Within the suite includes tools to trigger builds, run tests, and deploy code with each commit or push. Builds can target Docker containers or Virtual Machines. GitLab's ability to offer a DevOps platform in a single application makes it an attractive choice for enterprise users.

Audience Profile

- DevOps Engineers
- Software Developers
- Telecommunications Professionals
- Architects
- Quality Assurance & Site Reliability Professionals

At Course Completion

- Use Git and GitLab to view, create, and manage code, as well as the role GitLab can play in automating builds and shortening release of applications
- Git commands – including how to check code to repositories
- Team collaboration methods for projects and advancing code
- Merge requests and resolving conflicts
- Pipelines for GitLab CI / CD
- GitLab Runner for GitLab CI/CD

- GitLab Container Registry
- Project Webhooks
- GitLab for DevOps life cycle, from planning through to creation, build, verification, security testing, deployment to production environments, such as Kubernetes, and monitoring.

Outline

Certification

- Lecture + Lab: (OPTIONAL) – Git and GitLab Certification Project

AI LLM Toolkit

- Lecture + Lab: Large Language Model toolkit for AI Solution Assistance

Core Git Concepts

- Lecture + Lab: Introduction to Git
- Lecture + Lab: Git Branching

GitLab

- Lecture + Lab: Up and Running with GitLab
- Lecture + Lab: Generating and Using SSH Keys
- Lecture + Lab: Git and GitLab Interaction
- Lecture + Lab: Fixing Merge Conflicts
- Lecture + Lab: Writing Markdown in GitLab
- Lecture + Lab: GitLab Project Wikis
- Lecture + Lab: GitLab Collaboration
- Lecture + Lab: GitLab Webhooks
- Lecture + Lab: GitLab API Calls

GitLab CI CD

- Lecture + Lab: Introduction to CI CD
- Lecture + Lab: Building a Docker Image
- Lecture + Lab: Creating gitlab-ci.yml
- Lecture + Lab: Lifecycling a GoLang App with GitLab
- Lecture + Lab: GitLab Container Repository
- Lecture + Lab: GitLab Integration with Kubernetes Clusters

DevSecOps

- Lecture + Lab: Intro to DevOps
- Lecture + Lab: Intro to DevSecOps

Prerequisites

None

Course Schedule

Date	Time	Price	Options
06/25/2026	09:00 AM - 05:00 PM CT	1,895.00	Buy Now Enroll
10/01/2026	09:00 AM - 05:00 PM CT	1,895.00	Buy Now Enroll

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FAQ

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