

Innovera Academy

Course Outline

From Code to Company

Format: 70 hours across 12 sessions, organized into 3 stages — squad-based, instructor-led

Audience: Students & postgraduates (≤ 3 years since graduation) with software development, QA, DevOps, or AI experience

Course Description: A hands-on program where trainees are divided into projects and squads to design and build an enterprise-style application from concept to MVP. The course emphasizes collaboration, widening technical experience, and working in a delivery-focused setting — using GitHub, Docker, and CI/CD pipelines throughout.

Pre-Course Assignments

- GitHub Setup & Workflow — create a GitHub account, join the course repo, configure SSH keys, complete a pull-request exercise
- Docker & CI/CD Pipeline Basics — create a Dockerfile and docker-compose.yml, configure GitHub Actions for automated builds/tests
- Squad Charter — define roles and responsibilities within squads

Stage-by-Stage Breakdown

Stage	Sessions	Topics & Learning Objectives	Deliverable
Stage 1 Basics	Sessions 1–3	Kickoff & GitHub onboarding: course goals, team-formation intro, source control setup Docker & CI/CD fundamentals: containerizing an app, automated builds and tests Enterprise architecture foundations: core concepts and patterns	First containerized app running through an automated CI/CD pipeline; teams formed
Stage 2 Advanced	Sessions 4–11	Enterprise application components, Parts 1 & 2: services, APIs, data layers, UI Team building & squad selection: finalize squads, assign roles, define the integration plan Product-building sprints (5 sessions): each squad builds and integrates its modular component of the shared application	Working, integrated modular components — the shared enterprise-style application taking shape as an MVP
Stage 3 Capstone Project	Session 12	Final integration, testing, and polish across all squads Rehearsal for the public presentation	Completed enterprise-style MVP presented live at Demo Day to public figures and industry leaders

Demo Day: a public demo showcasing squad projects to public figures and industry leaders.

Course Extension: based on project progress, the program can be extended up to one month at Innovera and partner-institution discretion, for an additional 1,000 EGP per trainee.

Key Features

- 70-hour, instructor-led, squad-based program spanning 12 sessions in 3 progressive stages
- Build a real enterprise-style application from concept to MVP, working in cross-functional squads
- Hands-on experience with GitHub, Docker, and CI/CD pipelines from day one
- Exposure to enterprise architecture and diverse tech stacks and roles
- Culminates in a public Demo Day in front of industry leaders
- Designed for students and recent graduates (within 3 years) with prior technical experience
- Optional one-month extension available for teams needing more time to polish their MVP