

## Python 3 (develop first Web Application) #080213

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Teilnehmer: 08 -10

Das Training findet sich täglich vom 08:30 bis 17:00 statt.

Trainings-Dauer: 08.06.2026 bis zum 19.06.2026

Die ersten 3 Tage finden sich am Ort in Circle 6 am Zürich Flughafen statt.

Das Training in den Resttagen (bis zum 19.06.2026) findet sich nur Online statt.

Ziel : Build your first Web-Application!

Ziel Publikum : experienced Python Developer who finished Levels of Python 1 and Python 2

### Software requirements on Students-Laptops:

- Basic operating system like Windows 7/8/10, macOS, or Linux
- Office, Browser and Internet Connection

### Software requirements on Training Server (by D2C):

- PyChar als integrierte Entwicklungsumgebung (open source Full featured IDE )
- PostgreSQL DB (Installer: certified by EnterpriseDB for all supported PostgreSQL Versions)
- SQLAlchemy/Alembic
- Pydantic (Python Package)
- Redis (NoSQL database)
- Java Script

### Requirements:

Experience in Python Development with Levels of Python 1 and Python 2

Familiar with UNIX Commands

## Key Learnings

### Final Outcome

After completing this training, participants will be able to:

- Build a fully functional Python web application
- Use modern Python web frameworks
- Integrate databases and authentication
- Test, secure, and deploy a web app
- Understand real-world backend development workflows

## Python 3 (Build your first Web-Application) #080213

Module 1: Advanced Python Foundations for Web Development

Target: Write clean, scalable Python code for web apps

Module 2: Object-Oriented Programming for Web Applications

Target: Design maintainable application logic

Module 3: Web Fundamentals for Python Developers

Target: Understand how the web works

Module 4: Introduction to Python Web Frameworks

Target: Choose and set up a web framework

Module 5: Building Your First Web Backend (Hands-on)

Target: Create a working backend application

Module 6: Templates & Frontend Integration

Target: Display dynamic content

Module 7: Database Integration

Target: Persist application data



Module 8: Authentication & Authorization

Target: Secure your web application

Module 9: APIs & External Integration

Target: Build and consume APIs

Module 10: Testing & Debugging Web Applications

Target: Build reliable web apps

Module 11: Performance & Scalability Basics

Target: Make your app production-ready

Module 12: Security Best Practices for Web Apps

Target: Protect your application

Module 13: Deployment & DevOps Basics

Target: Run your app in real environments

Module 14: Capstone Project – Your First Web Application

Target: Apply everything learned