



Building APIs with Python Fast Track (PY201FT)

COURSE OVERVIEW

This course provides a comprehensive guide to building and interacting with APIs using Python, equipping participants with the skills needed to create, manage, and deploy RESTful APIs effectively. The curriculum focuses on modern frameworks, secure design principles, and the full lifecycle of API deployment. Labs on core Python fundamentals are included for those who need it, and advanced topics are included for those who don't.

WHO WILL BENEFIT FROM THIS COURSE?

- Backend Developers
- Software Engineers
- Full-Stack Developers
- Data Scientists/Analysts
- DevOps Engineers/Automation Specialists
- Technical Leads or Product Managers

PREREQUISITES

- Recommended Prerequisite: Python Basics
- Coding experience in another language serves as an adequate prerequisite

COURSE OBJECTIVES

- Apply foundational Python concepts directly to API development.
- Design and build secure, database-backed APIs using modern Python frameworks.
- Implement user authentication and protect API routes.
- Containerize applications for consistent, repeatable deployments.
- Integrate API development into an automated CI/CD workflow.

COURSE OUTLINE

Python Fundamentals for APIs

- Practical Application of Lists
- Lists
- Practical Application of Dict
- Dictionaries
- List and Dict Modeling
- Your First API Request
- Control Flow and Functions (NEW-LECTURE)
- Modules, Libraries, and Exception Handling

Consuming APIs

- Python Data sets vs JSON
- Python Data to JSON file
- requests library - RESTful GET and JSON parsing
- requests library - Open APIs
- requests library - GET vs POST to REST APIs
- Secure API Requests with the requests library

Building RESTful APIs

- Intro to Flask
- Building APIs with Python
- Learning sqlite3
- Tracking API Data with sqlite3
- Tracking Inventory with sqlite3

Securing and Managing APIs

- APIs and Dev Keys
- RESTful APIs and Dev Keys
- Flask Sessions
- Flask Uploading and Downloading Files
- Securing Your API

Production Readiness

- Running Flask in a Docker Container
- Flask and waitress
- Automating Deployment with CI/CD

Advanced and Optional Topics

- Introduction to FastAPI
- Asynchronous API Requests with asyncio
- Using Swagger for API Documentation
- Using Jinja2 for Dynamic Content

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Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their technology Investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!



Premiere World Class Instruction Team

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience

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- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

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- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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