



PYTHON TRAINING

Cherrypy Python

Develop powerful web apps with Cherrypy Python. Master its minimalist approach for efficient server-side programming.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level "CherryPy Python" course offers a highly focused, practical introduction to one of Python's most minimalist yet powerful web frameworks. Participants will dive deep into CherryPy's core philosophy, learning how to leverage its HTTP-driven, Pythonic approach to build robust and efficient web applications and APIs. The course emphasizes hands-on experience, guiding learners through setup, request handling, configuration, and essential features like session management and error handling. By the end, you'll possess the foundational skills to quickly develop scalable web services.

Designed for Python developers seeking to expand their backend toolkit, this course explores CherryPy's unique strengths: its clean architecture, speed, and suitability for microservices or embedded web servers. You'll gain a clear understanding of how CherryPy integrates with the Web Server Gateway Interface (WSGI) and best practices for structuring CherryPy projects. This knowledge not only enhances your ability to work with lightweight web frameworks but also deepens your understanding of fundamental web development principles, making you a more versatile and in-demand backend professional.

Successfully completing this intensive 2-hour course will equip you with the practical ability to initiate and manage CherryPy projects, understand its core functionalities, and integrate it into your existing Python development workflows. You'll be able to confidently develop efficient web services and APIs, offering a valuable skill set for roles requiring rapid application development and a strong grasp of Python's backend capabilities.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Getting Started with CherryPy

- Introduction to CherryPy: Philosophy and Core Features
- Understanding WSGI and CherryPy's Role
- Installation and Environment Setup
- Your First CherryPy Application: 'Hello World'
- Basic Server Configuration and Startup

02 Module 2: Request Handling and Routing

- Defining Routes and Dispatching Mechanisms
- Processing HTTP Methods (GET, POST, PUT, DELETE)
- Accessing Request and Response Objects
- Handling URL Parameters and Query Strings
- Working with Request Body Data

03 Module 3: Essential Features and Configuration

- Managing Sessions and Cookies
- Error Handling and Custom Error Pages
- Serving Static Files (CSS, JavaScript, Images)
- Introduction to CherryPy Tools and Plugins
- Configuration Best Practices (Global vs. Application-specific)

04 Module 4: Building a Simple RESTful API

- Designing API Endpoints with CherryPy
- Handling JSON Data for API Requests and Responses
- Basic Data Persistence (in-memory or simple file storage)
- Overview of Database Integration Strategies (e.g., SQLAlchemy)
- Testing CherryPy Applications: Concepts and Tools

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Python Microservices Developer**
- > **Backend API Specialist (using Lightweight Frameworks)**
- > **Embedded Web Application Engineer**

FREQUENTLY ASKED QUESTIONS

Q: What are the essential prerequisites for enrolling in this CherryPy Python course?

This course is designed for intermediate Python developers. You should have a solid understanding of Python fundamentals, including data structures, functions, classes, and object-oriented programming concepts. Familiarity with basic web concepts like HTTP methods and client-server architecture will also be beneficial, though not strictly required.

Q: How does CherryPy differentiate itself from other popular Python web frameworks like Flask or Django, and when is it the ideal choice for a project?

CherryPy stands out due to its minimalist, object-oriented, and 'Pythonic' approach, focusing on directly mapping HTTP requests to Python methods without much abstraction. Unlike Django, it's not a full-stack framework with built-in ORMs or templating engines. Compared to Flask, CherryPy often feels more direct and less magic, making it excellent for building lightweight, high-performance web services, RESTful APIs, or embedding a web server into existing applications where a full-blown framework might be overkill. It's an ideal choice when you need fine-grained control and prefer to assemble your own stack components.

Q: Will this course cover practical aspects of building and deploying production-ready CherryPy applications, especially concerning scalability or security?

While this intensive 2-hour course focuses on the core functionalities and building a simple application, it lays the groundwork for production readiness. We will touch upon essential concepts like server configuration, error handling, and strategies for database integration. However, in-depth discussions on advanced deployment strategies (e.g., using Gunicorn or uWSGI with Nginx), comprehensive security practices, or large-scale architectural patterns for high scalability will be briefly introduced as considerations rather than deeply covered topics due to the course duration. This course equips you with the fundamental skills to start building and then explore these advanced areas.

ABOUT COMPUTER PRIDE



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East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

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READY TO ENROL?

Take the next step in your technology career.

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