



PHP Development and API Integration Fundamentals

18 - 22 Jan 2027
Rome (Italy)



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Ref.: 121861_1055277 **Date:** 18 - 22 Jan 2027 **Location:** Rome (Italy) **Fees:** 7200 **Euro**

Introduction

The PHP Development and API Integration Fundamentals course provides a foundation in PHP programming and modern web application communication. It introduces core PHP development concepts required to understand server-side application logic and dynamic web functionality. It explains how PHP API integration connects applications with external services through standardized requests, responses, and data formats. Participants explore REST API principles, HTTP methods, JSON data exchange, authentication concepts, and API development workflows. The program examines how PHP applications process external data, manage responses, and address common integration challenges. By combining PHP programming fundamentals with API communication principles, the course builds the theoretical knowledge needed to understand reliable, maintainable connected applications.

Targeted Groups

This PHP Development and API Integration Fundamentals training targets professionals seeking knowledge and skills:

- Aspiring PHP developers building programming foundations.
- Web developers expanding server-side development knowledge.
- Junior developers learning PHP API integration.
- IT professionals working with web applications.
- Software developers connecting applications through APIs.
- Technical professionals studying REST API communication.
- Students preparing for PHP programming roles.
- Professionals developing backend application knowledge.

Course Objectives

Participants will achieve the following objectives by completing the PHP Development and API Integration Fundamentals course:

- Understand PHP development and server-side programming principles.
- Explain fundamental PHP syntax, variables, data types, and functions.
- Apply conditions, loops, arrays, and reusable programming logic.
- Understand basic PHP application structures and processing workflows.
- Explain API development concepts and communication principles.
- Understand REST API architecture and resource-based interaction.
- Identify HTTP methods, headers, parameters, and status codes.
- Interpret JSON structures used for application data exchange.
- Explain PHP API integration workflows and external service communication.
- Understand API endpoints, requests, responses, and authentication concepts.
- Recognize common API errors and integration challenges.
- Explain secure approaches to handling credentials and external data.
- Understand validation, response processing, and data transformation principles.
- Analyze theoretical scenarios for PHP and API integration.

- Establish a foundation for reliable and maintainable backend applications.

Targeted Competencies

Participants will gain the following competencies during the PHP Development and API Integration Fundamentals program:

- Understanding PHP programming and server-side application concepts.
- Interpreting PHP syntax, variables, functions, arrays, and control structures.
- Understanding REST API architecture and endpoint communication.
- Interpreting HTTP methods, status codes, headers, and parameters.
- Understanding JSON structures and API responses.
- Understanding PHP API integration workflows.
- Recognizing authentication and authorization requirements.
- Identifying API errors and communication issues.
- Applying data validation and security principles.
- Understanding external data processing and transformation.

Studying Scenarios

In this PHP Development and API Integration Fundamentals training, participants develop skills through the following scenarios:

- Analyzing a PHP application retrieving customer information through a REST API.
- Examining HTTP methods used to retrieve and update records.
- Interpreting JSON responses and identifying relevant application data.
- Reviewing authentication requirements for protected API endpoints.
- Evaluating API errors and response-handling approaches.

Course Content

Unit 1: PHP Development and Programming Foundations

- Understand PHP for dynamic web applications and backend systems.
- Explore statements, variables, constants, expressions, and program structures.
- Examine PHP data types, including strings, numbers, booleans, arrays, objects, and null.
- Understand arithmetic, assignment, comparison, logical, and string operators.
- Explore conditional structures for decision-making.
- Understand loops for repetitive data processing.
- Explore functions, parameters, return values, and reusable logic.

Unit 2: Core PHP Application Development

- Understand indexed, associative, and multidimensional arrays.
- Explore PHP methods for text manipulation and validation.
- Understand how PHP processes web form and browser data.
- Examine input validation and sanitization for secure data handling.
- Understand HTTP requests and server responses in PHP.
- Explore classes, objects, properties, methods, and encapsulation.
- Examine PHP errors, exceptions, and controlled error handling.

Unit 3: REST API and HTTP Communication Fundamentals

- Understand how APIs enable application-to-application communication.
- Explore API providers, consumers, resources, endpoints, requests, and responses.
- Understand REST principles and stateless communication.
- Explore GET, POST, PUT, PATCH, and DELETE methods.
- Interpret HTTP status codes for successful and failed requests.
- Understand JSON structures and their relationship with PHP data.
- Examine parameters, headers, and request bodies in API communication.

Unit 4: PHP API Integration and API Development

- Understand how PHP applications connect with external APIs.
- Explore HTTP methods, headers, parameters, and request bodies.
- Understand JSON decoding, validation, and response processing.
- Explore API keys, bearer tokens, and authentication methods.
- Identify authorization, connection, and server errors.
- Understand how API data supports dashboards, reports, and applications.
- Connect endpoints, authentication, requests, responses, and data processing.

Unit 5: Secure and Reliable PHP API Development

- Understand security principles for PHP applications and APIs.
- Examine secure handling of keys, tokens, passwords, and credentials.
- Validate user input and external API data before processing.
- Handle timeouts, unavailable services, invalid data, and connection failures.
- Understand API rate limits and communicate responsibly.
- Explore filtering, mapping, formatting, and organizing API data.
- Test API requests, authentication, responses, validation, and errors.
- Apply structured logic, secure data handling, and reliable error management.

Final Insights & Key Takeaways

PHP Development and API Integration Fundamentals establishes a strong theoretical foundation in PHP programming, REST API communication, HTTP methods, JSON data exchange, and PHP API integration. Participants gain the knowledge needed to understand how reliable PHP applications communicate with external services and effectively process API-driven data.



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