
REST APIs

Duration: 2 Days **Course Code: RESTAPI**

Overview:

REST APIs Course Overview

English - Please note this course is only available in English.

Nederlands - Let op: deze training is alleen in het Engels beschikbaar.

Français - Veuillez noter que ce cours est uniquement disponible en anglais.

REST APIs are a staple for developers the world over. Whether it's to provide a web app with access to server data or to facilitate comms between microservi

Target Audience:

Who will the Course Benefit?

This course will benefit developers who are required to build or maintain REST services and/or clients, and anyone otherwise interested in what a REST API is, how it works, and how to build a good one.

Objectives:

- Course Objectives
 - This course aims to provide the delegate with the skills and knowledge necessary to design and build good quality REST APIs.
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Prerequisites:

■ Delegates attending this course should have some knowledge of, or experience in, software development. Ideally delegates will be comfortable coding in Java, Python, or JavaScript to a fundamental level. This knowledge can be gained by attendance on one of the following courses.

Follow-on-Courses:

Further Learning

- Core Spring
 - Python Programming 2
 - Developing Node.js Web Applications
 - GraphQL
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Content:

REST APIs Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: PREREQUISITES

- APIs
- Web apps
- Web services
- HTTP
- JSON
- Serialisation

Session 2: REST THEORY

- What is a REST API?
- Guiding principles/constraints
- Resources
- Methods
- Naming

Session 3: REST SERVICES

- Designing a REST API
- Building a REST service with:
 - Spring Boot (Java) or;
 - Flask (Python) or;
 - Express (JavaScript)

Session 4: REST CLIENTS

- Off-the-shelf REST clients, e.g. Postman
- Building a REST client with:
 - HttpClient (Java) or;
 - Requests (Python) or;
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Session 5: REST API CONFIGURATION

- Caching
- Compression
- Content negotiation
- HATEOAS
- Idempotence
- Security
- Versioning
- Statelessness
- Documentation

Session 6: MORE REST THEORY

- The Richardson Maturity Model
- Searching, sorting, and pagination
- The n+1 problem
- PUT vs. POST
- Authentication techniques

Further Information:

For More information, or to book your course, please call us on 0800/84.009

info@globalknowledge.be

www.globalknowledge.com/en-be/