

Integration and API - practical and illustrative

Course code: BEIAPI

Integration and data exchange between applications – an increasingly important discipline, essential for the success of today's IT projects. At the same time, it is a discipline that many find difficult to grasp, standing at the intersection of analysis, architecture, programming, security, networks, and infrastructure in general. Our training will guide you safely through this integration jungle and clearly demonstrate, using practical examples, how to approach integrations so that you can successfully handle them in your projects.

Who is the course intended for:

If you are an IT or business analyst, integration architect, project manager, programmer, team leader, or product manager and are eager to expand your knowledge of integrations, you are in the right place. The training will also be valuable for other enthusiasts who want to gain a better understanding of connecting applications via APIs.

What we will teach you

Uncover the secrets of successful integrations so that participants can design and deliver functional and high-quality solutions that will stand the test of real-world projects.

The focus will be on maximum practical applicability, including illustrative examples. You can expect live, practical examples from the field that will clarify:

- How to think about integrations as a key part of a project
- How to design integrations so that they are feasible, functional, and of high quality
- How to incorporate AI into the design of integrations to save valuable time
- An overview of the most commonly used integration technologies
- Smart selection and use of integration platforms
- How to manage the development and implementation of integrations step by step
- Proven tips and tricks for testing and documenting integrations

Required prior knowledge

- Basic orientation in the IT environment and knowledge of terms such as applications, databases, and system architecture.
- Basic understanding of the software development process – they do not need to be able to program, but should understand the phases of a project, from requirements gathering to development and deployment.
- The ability to think analytically and work with diagrams and schematics.
- Previous experience working on IT projects or basic knowledge of API-related concepts is an advantage (but not a requirement).

Course outline

Introduction to the World of Integrations

Key concepts and why they matter

Data exchange formats

From JSON to XML – what and when to choose

Types of communication

REST, SOAP, JMS, MQTT, Kafka – what makes them popular

Integration platforms

How to choose the right one and make the most of it

Designing quality integrations

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Practical tips to save you from dead ends

Integrations in a corporate environment

Specifics and how to tackle them

Using AI in integration design

Tools and tricks for the modern analyst

Security, monitoring, and error handling

Don't forget security, common errors, and how to debug them

Testing and documentation

How to test and document integrations

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