

Automated testing of REST APIs and web services

Course code: TESTING_RESTAPI

The course is intended for all programmers and testers who need to create automated tests of REST APIs and web services (SOAP) communicating via the HTTP protocol, in systems built on any platform or programming language. The aim of the course is to create non-trivial tests of the interface and logic of the prepared application. The course is cross-platform and suitable for all developers in languages such as Java, C#, Python and more.

Affiliate	Duration	Course price	ITB
Praha	2	9 200 Kč	20
Brno	2	9 200 Kč	20
Bratislava	2	400 €	20

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
 24.11.2025	2	9 200 Kč	Online	CZ/SK	Online
 24.11.2025	2	400 €	Online	CZ/SK	Online
11.12.2025	2	9 200 Kč	Presence	CZ/SK	GOPAS Praha
26.02.2026	2	9 200 Kč	Presence	CZ/SK	GOPAS Praha
04.06.2026	2	9 200 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

Required entry skills

- The course assumes knowledge and experience with programming in languages such as Java, C#, Python and others.

Teaching methods

- Expert interpretation with practical examples, exercises on computers.

Studying materials

- Printed presentations of the discussed material.

Course outline

Introduction and basic concepts

- Testing
- REST API (JSON, OpenAPI, YAML)
- Web services (XML, XSD, WSDL)
- Architecture and functionality of the tested application
- SoapUI tools environment

What SoapUI can do

- Structure and modularity of SoapUI projects
- Test scenarios in SoapUI

Working with API of tested systems

- Import OpenAPI (Swagger)
- WSDL import

Test Scenario Steps:

GOPAS Praha
Kodaňská 1441/46
101 00 Praha 10
Tel.: +420 234 064 900-3
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 542 422 111
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 248 282 701-2
info@gopas.sk



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Automated testing of REST APIs and web services

- HTTP
- REST
- SOAP
- Parameter transfer
- Conditional jumps
- Creating and calling functions
- Waiting
- Manual entry
- Assertions

Parameterization of SoapUI projects

- Global and context parameters
- Saving and using parameters across tests

API simulation

- Generating Mock service
- Generating responses
- Answer selection logic
- Parameterization of responses

Stress tests

- Load test generation
- Stress test strategy
- Evaluation of results
- Scripting

What is Groovy

- Useful scripts
- Using scripts in test scenarios

Continuous Integration

Running tests from the command line

GOPAS Praha

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info@gopas.cz

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info@gopas.sk



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