

Course : Cypress, Web application test automation

Practical course - 2d - 14h00 - Ref. CYW

Price : 1720 CHF E.T.

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Open source and cross-platform, Cypress automates front-end and end-to-end testing of web applications. Cypress uses JavaScript to write tests. On completion of the course, you will be able to implement Cypress in your web development environment.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Implement Cypress for web application testing
- ✓ Understand and apply the tool's main commands
- ✓ Position Cypress in relation to other tools, including Selenium WebDriver
- ✓ Develop and debug Cypress test scripts
- ✓ Gain initial experience of visual testing

Intended audience

Development engineers, testers and automation specialists who want to learn how to test web applications with Cypress.

Prerequisites

Bonnes connaissances d'un langage de programmation. Connaissances de base de JavaScript.

Course schedule

PARTICIPANTS

Development engineers, testers and automation specialists who want to learn how to test web applications with Cypress.

PREREQUISITES

Bonnes connaissances d'un langage de programmation. Connaissances de base de JavaScript.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.

Participants also complete a placement test before and after the course to measure the skills they've developed.

1 Installing and configuring Cypress

- Positioning Cypress in the world of web testing robots.
- Install Cypress on Windows or macOS.
- Open Cypress and understand its user interface and architecture.
- Switch between browsers.
- Detailed comparison between WebDriver and Cypress.
- Why choose Cypress for front-end applications?

Hands-on work

Install, run examples and analyze results in the interface.

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

2 Writing your first automated test with Cypress

- Working with Cypress on the command line.
- Understand basic Cypress commands.
- Debug Cypress scripts with command lines.
- Write functional tests.
- Use Cypress's auto-reload function.
- Assertions with Cypress.
- Debugging tests with Cypress.

Hands-on work

Run Cypress commands and debug scripts. Write and run complete tests. Debugging sessions on concrete examples.

3 Writing tests with Cypress using the TDD approach

- Understanding the TDD approach.
- Writing TDD tests with Cypress.
- A concrete example of an application.
- Modify TDD tests.

Hands-on work

Concrete examples of a TDD approach on an online application.

4 Cypress and interactions with web elements

- Understand the possibilities of interaction with web components.
- Using the experimental action recorder.
- Understanding variables and aliases in Cypress.

Hands-on work

Concrete examples of different levels of interaction with web components. Use of the action recorder.

5 Advanced uses of Cypress

- Understanding the Instrument panel.
- Understand the Selector Playground.
- Test Runner" keyboard shortcuts.
- Implement navigation and HTTP requests.
- Plug and spy on XHR requests.
- Tools for visual testing with Cypress.

Hands-on work

Use of the Test Runner and Selector Playground. Concrete examples of browsing requests and HTTP requests. Concrete examples of stubbing and spying.

Dates and locations

REMOTE CLASS

2026: 19 Mar., 8 June, 21 Sep., 30 Nov.