

Course : Azure DevOps, implementing continuous integration

Practical course - 5d - 35h00 - Ref. ICA

Price : 3540 CHF E.T.

★★★★☆ 4,1 / 5

BEST

DevOps aims to optimize the workflow between developers and operational staff, reconciling responsiveness and quality of service. This course shows the key concepts of DevOps and the continuous deployment chain with Microsoft Azure, which has become the standard for project lifecycle management.

Teaching objectives

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

- ✓ Setting up continuous integration with Azure
- ✓ Mastering the continuous deployment chain: the right reflexes, tools, collaborative rituals
- ✓ Develop a culture of measurement and implement best practices

Intended audience

Developers, architects, technical project managers.

Prerequisites

Basic knowledge of Cloud architectures, operating systems and enterprise networks.

Course schedule

1 Continuous integration and Azure DevOps

- The principles, objectives and benefits of continuous integration.
- The various components required for continuous integration.
- Azure DevOps concepts.
- Project management with Azure DevOps.
- The different players involved in Azure DevOps.
- Create and configure a new project.
- Project access rights management.

Hands-on work

Create and configure a new project.

PARTICIPANTS

Developers, architects, technical project managers.

PREREQUISITES

Basic knowledge of Cloud architectures, operating systems and enterprise networks.

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.

2 The source code controller

- Introducing Team Foundation Version Control.
- Use in Visual Studio.
- Using GIT with Azure DevOps.
- Clone a GIT repository.

Hands-on work

Using GIT with Azure DevOps.

3 Setting up tests

- Test plan and functional tests.
- Bug management and feedback.
- Load testing in the cloud.

Hands-on work

Design and implementation of tests with Azure. Bug and re-delivery management. Non-regression management.

4 The Builds

- Create a new definition of "build".
- Add tasks to a build.
- Compile the project.
- Run unit tests.
- Trigger a build.
- Automated builds and tests.

Hands-on work

Generate builds and compile the project. Run and check unit tests.

5 Release and deployment

- Create a new release.
- Define release tasks.
- Plan for manual intervention during deployment.
- Task groups.

6 Validating and launching deployments

- Approve a deployment.
- Deployment automation.
- Conditional deployment.

Hands-on work

Set up a deployment. Automate deployments.

7 Release management

- Manage different versions in different environments.
- Definition of environment variables.
- Error handling and logs.

Hands-on work

Manage different versions. View the contents of log files.

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.

8 Agent pool operation

- Queue management.
- Competitor pipelines for hosted agents.
- Add private agents.

Hands-on work

Manage queues. Use private agents.

Dates and locations

REMOTE CLASS

2026 : 1 June, 14 Sep., 23 Nov.