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.

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.

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.