

Course : Design and Implement Microsoft DevOps solutions (Microsoft AZ-400)

Official AZ-400 course, exam preparation

Practical course - 4d - 28h00 - Ref. AZU

Price : 3030 € E.T.

★★★★☆ 4,6 / 5

ActionCo

Formation éligible au financement Atlas

With this course, you'll learn how to design and implement DevOps processes. You'll use source code control, manage dependencies, secrets and artifacts, implement continuous integration, containers, deployment and release strategies, and optimize feedback.

Teaching objectives

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

- ✓ Designing and implementing DevOps processes
- ✓ Using Git to manage large-scale source code
- ✓ Automate testing and continuous integration
- ✓ Deploying applications with CI/CD pipelines
- ✓ Managing secrets, dependencies and artifacts
- ✓ Set up publication and deployment strategies
- ✓ Monitor applications and optimize feedback

Intended audience

Toute personne souhaitant concevoir des processus DevOps ou passer la certification Microsoft Azure DevOps Solutions.

Prerequisites

Good administrative and/or development experience on Azure, proficiency with GitHub/Azure DevOps, and ideally AZ-104 or AZ-204 certification.

PARTICIPANTS

Toute personne souhaitant concevoir des processus DevOps ou passer la certification Microsoft Azure DevOps Solutions.

PREREQUISITES

Good administrative and/or development experience on Azure, proficiency with GitHub/Azure DevOps, and ideally AZ-104 or AZ-204 certification.

TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

Practical details

Teaching methods

Training in French. Official course material in digital format and in English. Good understanding of written English.

Course schedule

1 Development for enterprise DevOps

- Introduction to DevOps.
- Planning in agile mode with GitHub Projects and Azure Boards.
- Design and implement branch strategies and workflows.
- Working with pull requests in Azure Repos.
- Explore Git hooks.
- Promoting Inner Source.
- Manage and configure repositories.
- Identify technical debt.

2 Implement continuous integration with Azure Pipelines and GitHub

Actions

- Explore Azure Pipelines.
- Manage Azure Pipelines agents and pools.
- Describe pipelines and simultaneity management.
- Design and implement a pipeline strategy.
- Integrate with Azure Pipelines.
- Introduction to GitHub Actions.
- Learn continuous integration with GitHub Actions.
- Design a container creation strategy.

3 Designing and implementing a publishing strategy

- Create a publication pipeline.
- Explore publication recommendations.
- Provision and test environments.
- Manage and modularize tasks and templates.
- Automate health inspections.

4 Implement secure continuous deployment with Azure Pipelines

- Introduction to deployment models.
- Implement blue-green deployment and feature flagging.
- Perform canary and dark launching deployments.
- Set up A/B testing and progressive deployment.
- Integrate identity management systems.
- Manage application configuration data.

5 Managing infrastructure as code with Azure and DSC

- Explore infrastructure as code and configuration management.
- Create Azure resources with ARM templates.
- Create Azure resources using the Azure CLI interface.
- Explore Azure automation with DevOps.
- Implement Desired State Configuration (DSC).
- Implement Bicep.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

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

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

Options

Certification : 200 € HT

La réussite de l'examen permet d'obtenir la certification Microsoft DevOps Engineer Expert. .

[Comment passer votre examen ?](#)

The certification option comes in the form of a voucher and practice tests that will allow you to practise and take the exam at the end of the training course.

Dates and locations

REMOTE CLASS

2026 : 26 May, 26 May, 21 July, 29 Sep., 8 Dec.

LYON

2026 : 26 May, 21 July, 8 Dec.

ANGERS

2026 : 26 May, 8 Dec.

BORDEAUX

2026 : 26 May, 29 Sep.

CAEN

2026 : 26 May, 8 Dec.

DIJON

2026 : 26 May, 29 Sep.

LAUSANNE

2026 : 29 Sep.

LILLE

2026 : 26 May, 29 Sep.

MARSEILLE

2026 : 26 May, 8 Dec.

MONTPELLIER

2026 : 26 May, 29 Sep.

NANCY

2026 : 26 May, 8 Dec.

NIORT

2026 : 29 Sep.

PAU

2026 : 26 May, 8 Dec.

RENNES

2026 : 26 May, 29 Sep.

SAINT-ETIENNE

2026 : 26 May, 8 Dec.

PARIS LA DÉFENSE

2026 : 26 May, 21 July, 29 Sep., 8 Dec.

AIX-EN-PROVENCE

2026 : 26 May, 29 Sep.

AVIGNON

2026 : 26 May, 8 Dec.

BREST

2026 : 26 May, 8 Dec.

CLERMONT-FERRAND

2026 : 26 May, 8 Dec.

GRENOBLE

2026 : 29 Sep.

LE MANS

2026 : 26 May, 8 Dec.

LIMOGES

2026 : 26 May, 8 Dec.

METZ

2026 : 26 May, 8 Dec.

MULHOUSE

2026 : 26 May, 8 Dec.

NANTES

2026 : 26 May, 21 July, 8 Dec.

ORLÉANS

2026 : 29 Sep.

REIMS

2026 : 29 Sep.

ROUEN

2026 : 29 Sep.

SOPHIA-ANTIPOLIS

2026 : 26 May, 29 Sep.

STRASBOURG

2026 : 26 May, 29 Sep.

TOULOUSE

2026 : 26 May, 29 Sep.

VALENCE

2026 : 26 May, 8 Dec.

GENÈVE

2026 : 29 Sep.

TOULON

2026 : 26 May, 8 Dec.

TOURS

2026 : 29 Sep.

BRUXELLES

2026 : 26 May, 8 Dec.

LUXEMBOURG

2026 : 26 May, 8 Dec.