

# DevOps: Method and Organization

Hands-on course of 2 days - 14h

Ref.: VPS - Price 2024: CHF1 890 (excl. taxes)

## EDUCATIONAL OBJECTIVES

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

- Discover the origin of the DevOps movement
- Culturally support the movement towards DevOps
- Master the continuous deployment pipeline: the right reflexes, tools, collaborative rituals
- Develop the cult of measurement and implement best practices
- Identify the main steps to implement the approach

## TEACHING METHODS

Understand the fundamentals of DevOps and put them into practice through innovative workshops.

## ROLE-PLAYING

40% theory - 60% practice  
Scenarios to understand the concepts and implement them.

## THE PROGRAMME

last updated: 06/2022

### 1) DevOps: the basics

- The changes brought about by the digital (r)evolution.
- The new challenges.
- The solutions: Agile and DevOps methods.
- Their positioning among the frameworks and standards of IT service production.
- The foundations of the DevOps movement.

### 2) Culture/Sharing: from coordination to collective intelligence

- Accompanying the change.
- Building multidisciplinary teams, implementing continuous learning.
- Team stages of maturity.
- Adapting governance: Moving from a mechanical structure to an innovative one.
- Commitment by everyone: The real challenge for managers.
- Changing people's positions.

*Hands-on work* : Collaborative workshops to practice self-governance, establish the basis for effective communication and develop collective intelligence.

### 3) Automation, unlocking value in the software supply chain

- Architectural choices.
- Product requirements management and associated tools.
- Environment management and associated tools.
- Version management and associated tools.
- Continuous delivery and associated tools.
- Test automation and associated tools.
- Continuous deployment and associated tools.
- Scaling up.

*Hands-on work* : Define a "DevOps Backlog" to build a continuous deployment pipeline. Prioritization and definition of the iteration plan. Sharing observations and summarizing lessons learned.

## 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.

## 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.

#### 4) Measurement: Collecting feedback and continuously improving

- Some key definitions and examples of metrics.
- Different sources of data.
- Key steps to consider.
- Focus on the Lean Start-Up approach.
- Continuous monitoring and associated tools.
- The DevOps dashboard as a support for visual management and associated tools.

*Hands-on work* : Definition of metrics and specification of the team dashboard. Updating the DevOps backlog and iteration plan. Sharing observations and summarizing lessons learned.

## DATES

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REMOTE CLASS

2024 : 01 Jul, 07 Oct