

# DevOps Foundation: DevOps Institute certification

Hands-on course of 3 days - 21h

Ref.: DEF - Price 2024: CHF2 450 (excl. taxes)

## EDUCATIONAL OBJECTIVES

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

Understand what the DevOps movement is

Know the business challenges of DevOps

Master the values, principles, and practices of DevOps

Getting a glimpse of the automation tools

## TEACHING METHODS

Lecture and participation with verification that that understanding is being attained over time through exercises (MCQs).

## CASE STUDY

Preparation for the certification exam using exercises (MCQs) and mock exams with answers. Exam in French or English.

## CERTIFICATION

The DevOps Foundation certification exam from the DevOps Institute is included in the training.

## 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](mailto:psh-accueil@ORSYS.fr) to review your request and its feasibility.

## THE PROGRAMME

last updated: 07/2021

### 1) Genesis of DevOps

- Context.
- The reality of companies.
- The Business perspective.
- The IT perspective.
- Dev and Ops stereotypes: Perceptions and realities.
- The DevOps movement.

### 2) DevOps - General overview

- Definitions of DevOps concepts.
- What is DevOps? Its objectives, stakeholders, value to the company.
- What isn't DevOps?
- DevOps and IT performance (Agility and stability).
- IT performance measurement indicators.
- DevOps and automation (why is automation possible? The benefits).
- DevOps and other frameworks (Agile, Lean, ITIL®).

### 3) The principles and values of DevOps

- Principles. The three paths: Workflow, feedback, continuous experimentation and learning.
- Values. CALMS: Culture, Automation, Lean, Measurement, Sharing.

### 4) DevOps culture

- Understanding DevOps culture.
- Its characteristics: Transparency, shared vision, trust, continual improvement, etc.
- Managing the change in culture.
- Setting up the DevOps culture. Where to start? Risks, success factors.
- Measuring the success of DevOps.

## 5) DevOps and the organization

- Skills.
- Organizational structures.
- Roles and responsibilities.
- Promoting collaboration and improving communication.

## 6) DevOps practices

- Continuous integration and delivery.
- Continuous deployment.
- VSM (Value Stream Mapping), Kanban.
- Theory of constraints.
- Feedback: Dashboards, post-mortems, etc.
- The Deming cycle (PDCA), "Improvement Kata".
- Preparing for failure.
- Improving ITSM processes.

## 7) DevOps and tools

- DevOps automation practices.
- Concerns and categories of DevOps tools.

## 8) Preparing for and taking the test

- Advice for the exam.
- Mock exam with commented correction.
- Simulation of exam conditions.
- Taking the DevOps Foundation certification exam from the DevOps Institute.

# DATES

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REMOTE CLASS

2024 : 08 Jul, 21 Oct