

# DASA DevOps Fundamentals: Certification

Hands-on course of 3 days - 21h

Ref.: DFA - Price 2024: €2 450 (excl. taxes)

## EDUCATIONAL OBJECTIVES

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

Understand key concepts and principles of DevOps

Understand the service delivery process

Master the concepts of automating infrastructure, procurement, and deployment tests

## TEACHING METHODS

Preparation for the certification exam using exercises (MCQs) and mock exams with answers. Materials, instruction, and exam in French.

## THE PROGRAMME

last updated: 06/2022

### 1) Introduction to DevOps

- History, emergency, fundamentals, and benefits.
- Digital transformation and DevOps.
- Keys to a profitability analysis.
- Domains of skill and knowledge, and framework of knowledge.
- DevOps Agile Skills Association (DASA).

### 2) DevOps culture

- Organized around a team concept.
- Cultural aspects of a team. Mindset and quality of service at the source.
- Key elements: Motivated teams, visual management, continuous improvement, problem solving, Kaizen mindset.
- Leadership in a DevOps environment. Leadership and feedback.
- Setting up a DevOps culture.
- Cultural change.

### 3) DevOps organization

- Organizational models. Impacts.
- Aligning the organizational model with IT.
- Importance of DevOps hybrid versions.
- Autonomous teams. Conway's law and architecture of organizations.
- Architecture and design for DevOps. Complexity/quality relationship.
- Micro Services Architecture (MSA). Architecture for systemic resilience.
- DevOps governance.

### 4) Processes

- Process basics.
- DevOps compared to ITSM.
- Benefits of Agile. Agile and Scrum.
- Fundamentals of Lean. The eight types of waste. Mapping value flows.
- Optimizing commercial value and business analysis.
- Role of a minimum viable product in an Agile process.
- Role of segments in mapping requirements.

## 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.

## 5) Automation

- Automation for software delivery.
- Automation of continuous delivery: Definition, objectives, advantages, etc.
- Automation of continuous distribution. Impacts. DevOps versus continuous delivery.
- Emergence of the cloud and impacts in DevOps organizations.
- Automated procurement.
- Applying cloud concepts in an organization.

## 6) Measurement and improvement

- Need for measurement and feedback.
- Choosing the right metrics. Best practices (MTTR). The five leading indicators of IT performance.
- Monitoring and recording.
- Optimized monitoring for DevOps. Feedback culture.
- Conclusion and mock exam.
- Taking the exam.

# DATES

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REMOTE CLASS

2024 : 18 Sep, 02 Dec