

# Course : DevOps, Site Reliability Engineering Foundation (SREF), DevOps Institute certification

Practical course - 3d - 21h00 - Ref. YZD

Price : 2580 CHF E.T.

★★★★☆ 3,9 / 5

This course shows how an organization can scale critical services reliably and economically. This reliability engineering requires organizational realignment, a new focus on engineering and automation, and the adoption of a series of new working paradigms.

## Teaching objectives

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

- ✓ Understanding the relationship between SRE, DevOps and frameworks
- ✓ Adjusting service level objectives (SLOs) to user orientation
- ✓ Analyze service level indicators (SLI) and understand the modern monitoring landscape
- ✓ Use SRE tools and automation techniques, taking safety into account
- ✓ Giving yourself the means to succeed in certification "Site Reliability Engineering Foundation"

## Intended audience

Directors, project and IT managers, product owners and Scrum Masters, software engineers. Any professional involved in site reliability engineering.

## Prerequisites

General knowledge of software systems.

## Certification

The DevOps Institute's DevOps Foundation certification exam is included in the training program, and takes place remotely and off-line. The test (MCQ of 40 questions) lasts 1 hour and requires a minimum of 65% correct answers.

### PARTICIPANTS

Directors, project and IT managers, product owners and Scrum Masters, software engineers. Any professional involved in site reliability engineering.

### PREREQUISITES

General knowledge of software systems.

### 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.

## Practical details

### Exam

Preparation followed by examination.

## Course schedule

### 1 Principles and practices of Site Reliability Engineering

- What is site reliability engineering?
- SRE & DevOps: what's the difference?
- SRE principles and practices.

### 2 Service level targets and error budgets

- Service level objectives (SLOs).
- Incorrect budgets.
- Fiscal policy error.

### 3 Reduce Toil

- What is the Toil?
- Why is the Toil bad?
- What to do about Toil.

### 4 Monitoring and service level indicators

- Service level indicators (SLI).
- Indicator tracking.
- Observability.

### 5 SRE tools and automation

- Definition of automation.
- Focus on automation.
- Hierarchy of automation types.
- Secure automation.
- Automation tools.

### 6 Anti-fragility and learning to fail

- Why learn from failure?
- Advantages of anti-fragility.
- Changing the organizational balance.

### 7 Organizational impact of the SRE

- Why organizations adopt SRE.
- Models for SRE adoption.
- Custody requirements.
- Flawless autopsies.
- SRE and scale.

#### 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.

## 8 SRE, other frameworks, the future

- SRE and other frameworks.
- The future.
- Additional sources of information.

## 9 Exam preparation "Site Reliability Engineer Foundation (SREF)"

### Dates and locations

#### REMOTE CLASS

2026 : 22 Apr., 24 June, 26 Aug., 23 Sep., 2 Dec.