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Sign up

# DevOps Foundation? training (DSOF)

2 days (14 hours)

## Presentation

Apply DevOps to reduce your delivery times while ensuring the quality of your products.

DevOps is a movement that emerged in Belgium in 2007. This approach aims to reconcile two IT professions: developers (Dev) and administrators (Ops). With DevOps, communication between these different departments is strengthened. Today, this discipline has proved its worth, and its practices are [widespread throughout the world](#).

DevOps Foundation certification is the certificate to prove your DevOps skills. The exam tests your theoretical knowledge of :

- Application of DevOps and its methods (CI/CD, workflow, continuous testing, etc.).
- The benefits of the DevOps framework
- Your ability to combine DevOps and agility
- Maintaining this approach in large organizations
- Strengthening collaboration between the various technical teams
- Setting up automation and deployment pipelines

Our DevOps Foundation certification course will teach you the principles and best practices of DevOps, the associated [tool chain](#), how to reconcile DevOps and agility, and how to optimize development using KPIs.

Note: Ambient IT does not own the DevOps Foundation? certification, which belongs to DevOps Institute Inc.

## Objectives

- Gain an in-depth understanding of DevOps concepts, issues and practices
- The benefits of DevOps
- Understanding the different terms associated with DevOps

- Identify performance indicators to measure the success of a DevOps framework
- Applying DevOps within an organization
- Strengthen collaboration and apply improved feedback loops
- Use automation tools
- Preparing for DevOps Foundation certification

## Target audience

- Developers
- Architects
- System administrators
- DevOps
- Project Manager
- Engineers
- Anyone involved in the development and provision of IT services, with a view to improving the quality of these services.

## Prerequisites

- Basic knowledge of Agile, Scrum, Lean and ISTM is desirable
- Initial experience in IT development and/or production is recommended

## DevOps Foundation training program

### Day 1 - Morning

#### Kick-Start (approx. 1h30)

- Start-up (approx. 30 minutes), explanation, life rules, sign-in, etc.
- Training rules: schedules, breaks, pedagogical\* and technical\* assistance, etc.
- Presentation of training objectives and program
- Introducing participants and debriefing their expectations
- Download
- Getting started

#### Module 1: Exploring DevOps (approx. 1h30)

- Exploring DevOps
- Defining DevOps
- Discussion: individual reflections on the level of DevOps knowledge
- Why is DevOps important?
- From a business point of view
- From an IT perspective
- End of Module MCQ

#### Module 2: Key DevOps principles (approx. 1h30)

- Three ways
- Chaos Monkey
- Fostering a learning culture
- Case study: reflection on collaboration and communication models

## Day 1 - Afternoon

Start-up (approx. 15 minutes): questions, answers, sign-in Module 3: Main

DevOps practices (approx. 1h45)

- Continuous testing
- Continuous integration, continuous delivery, continuous deployment
- Screening of an educational video illustrating integration and continuous delivery with Github
- Site Reliability Engineering (SRE)
- DevSecOps
- Case study : Capital one and continuous integration
- ChatOps
- Kanban
- End of Module MCQ

Module 4: Business Frameworks and Technologies (approx. 1h30)

- Agile
- Screening of an educational video (first part) on the organization of information and experience sharing at Spotify
- Discussion: Agility in Operations
- Lean
- Lean tools
- Case study : Alaska Air (managing operations efficiently)
- Simulation: identifying and eliminating waste
- End of Module MCQ

## Day 2 - Morning

Start-up (approx. 15 minutes): questions, answers, sign-in Module 5: Culture,

behaviors and operational models (approx. 1h45)

- Defining culture
- DevOps and culture
- Screening of an educational video (second part) on the organization of information and experience sharing at Spotify
- Discussion: positioning yourself on the change curve
- Culture change
- Simulation: evaluating and improving the Westrum model

- Case study: Target (ask permission or act proactively)
- End of Module MCQ

## Module 6: DevOps automation and architecture (approx. 1h30)

- Automation
- Important terminology
- Architecture
- Practices, communication, improvement
- Discussion: applying the DevOps definition
- DevOps Toolchains
- Screening of an educational video on the DevOps Toolchain
- Simulation: architecting your devOps Toolchain
- Case study: Fannie Mae (rethinking to facilitate cooperation)
- End of Module MCQ

## Day 2 - Afternoon

Start-up (approx. 15 minutes): questions, answers, sign-in Module 7:

## Measurement, indicators and reporting (approx. 1h45)

- The importance of measuring
- Screening of an educational video on DevOps indicators for improving delivery performance
- DevOps indicators
- Guidelines
- Discussion: the indicators used today
- Simulation: the most significant indicators
- Case study: Société Générale (speed measurement indicators)
- End of Module MCQ

## Module 8: Sharing, observing and evolving (approx. 1h30)

- DevOps Days
- DevOps in the enterprise
- Roles
- DevOps Leadership
- Organizational considerations
- Start
- Screening of an educational video entitled "A Culture of Sharing".
- Discussion: what is your Open Space topic
- Simulation: drawing up your action plan
- Case study: Disney (Reducing costs to offer more)
- End of Module MCQ
- Independent, individual preparation for the Certification exam

## Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

A certificate will be issued to each trainee who completes the course.