

## DevOps Fundamentals with certification

Training in 2 or 3 days

Up to 200 times faster software deployment, 30 times increased deployment frequency, and 60 times higher change success rates. The data doesn't lie.

Organizations such as Netflix, Spotify and Facebook are transforming IT by successfully implementing DevOps principles.

But you don't have to be a hot internet company or a gigantic enterprise to be a DevOps leader.

Companies large and small, young and old, have magnificently made the transition and have the proof of success in their pockets. DevOps training is the starting point for an organization going on the DevOps journey. Improved workflows and faster deployment starts with a core understanding of DevOps fundamental concepts by anyone involved in an agile and/or DevOps team.

The 3-day DevOps Fundamentals course provides an extensive introduction to the core Agile DevOps principles covering the essential knowledge and skill competences that have been defined by the DevOps Agile Skills Association.

This course is designed to provide the core education necessary to build your DevOps vocabulary and to understand its principles and practices.

With the help of key DevOps concepts and terminology, real-life case studies, examples and interactive group discussions and extensive exercises in each module you will acquire a fundamental understanding of DevOps.

### Détails

- **Code** : IJ-DVO
- **Durée** : 2 jours ( 14 heures )

#### Public

- Administrateurs
- Administrateurs de bases de données
- Architectes
- Chefs de projets
- Consultants
- Consultants informatiques
- Développeurs
- Équipes de gestion des opérations
- Ingénieurs
- Professionnels de l'informatique
- Professionnels de l'IT
- Responsable des processus de l'entreprise
- Support Engineers

#### Pré-requis

- Basic familiarity with agile, scrum, lean and ITSM principles is beneficial

### Objectifs

- Understand why organizations are adopting "Need to adopt" DevOps practices from both the business and IT perspective
- How to answer the question 'What is DevOps?'
- Understand DevOps values and principles
- Understand how DevOps interfaces with other frameworks such as agile, lean and ITSM service Management
- Understand DevOps organizational considerations including DevOps roles, teams and organizational structures & Key DevOps practices

### Programme

#### MODULE 1: COURSE INTRODUCTION

- Let's Get to Know Each Other Overview
- Course Learning Objectives
- Course Agenda
- Type of Activities Exam
- Course Book
- Technical Glossary

- Group Activity
- Module Summary

#### MODULE 2: DEVOPS INTRODUCTION

- Module Objectives
- Module Topics
- Emergence of DevOps

- Core Concepts of DevOps
- DevOps Agile Skills Association
- Module Summary
- Module End Questions

### MODULE 3: CULTURE

- Module Objectives
- Module Topics
- Introduction to a DevOps Culture
- Key Elements of DevOps
- Implementation of a DevOps Culture
- Module Summary
- Module End Questions

### MODULE 4: ORGANIZATION

- Module Objectives
- Module Topics
- Organizational Model Autonomous Teams
- Architecting for DevOps Governance
- Module Summary
- Module End Questions

### MODULE 5: PROCESSES

- Module Objectives
- Module Topics
- Defining Agile, Scrum, and Kanban
- DevOps in Relation to ITSM
- The Scrum Approach in more Detail
- Optimizing Processes Using Lean
- Business Value Optimization and Business Analysis Using Story Mapping
- Software Delivery Lifecycle in a DevOps Organization
- Module Summary

- Module End Questions

### MODULE 6: AUTOMATION

- Module Objectives
- 6A Automation Concepts
- Automation for Delivery of Software
- Continuous Delivery Core Concepts
- Continuous Delivery Automation Concepts
- Continuous Delivery Automation Focus Topics
- 6B Data Center Automation
- Emergence of Cloud Technology and Principles
- Cloud Services Concepts in a DevOps Organization
- Automated Provisioning Concepts
- Platform Product Characteristics and Application Maturity
- Module Summary
- Module End Questions

### MODULE 7: MEASURE AND IMPROVEMENT

- Module Objectives
- Module Topics
- Importance of Measurement
- Choosing the Right Metrics
- Monitoring and Logging
- Module Summary
- Module End Questions

### EXAM PREPARATION GUIDE

- Module Learning Objectives
- Topics Covered in This Module
- Qualification Learning Objectives
- Learning Level of the Syllabus
- Certification
- Exam Instructions
- Tips for Taking Exam

## Modalités

- **Type d'action** :Acquisition des connaissances
- **Moyens de la formation** :Formation présentielle – 1 poste par stagiaire – 1 vidéo projecteur – Support de cours fourni à chaque stagiaire
- **Modalités pédagogiques** :Exposés – Cas pratiques – Synthèse
- **Validation** :Exercices de validation – Attestation de stages