

Updated on 21/02/2023

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DASA DevOps Fundamentals training

3 days (21 hours)

Presentation

DevOps Fundamentals is the starting point for anyone involved in an Agile and/or DevOps team. Improving workflows and accelerating deployments starts with a basic understanding of DevOps fundamentals by all team members. Our DASA DevOps Fundamentals course will teach you the DevOps vocabulary, the business benefits of DevOps, the relationship of DevOps to Agile methods, and how to set up performance indicators. This training will provide you with the necessary knowledge and skills defined by DASA. At the end of the course, you will be able to take the DEVOPS Fundamentals Certification.

Objectives

- Understanding DevOps vocabulary
- Identify and understand the benefits for the company
- Master the direct relationship with Agile development methods
- Applying DevOps in the enterprise
- Measure and implement performance indicators
- Achieving DevOps Fundamentals certification

Target audience

This course is aimed at professionals in software development, IT departments and operations.

Prerequisites

- Knowledge of Agile development is a plus
- A minimum level of English is required for certification

Teaching aids

- A course guide will be given to each trainee.
- Practical workshops will be organized to put theory into practice.

Program of our DASA DevOps Fundamentals training course

Day 1: 7H

First half-day: 3h 30

Start-up (approx. 30 minutes), explanation of 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
- Registration
- 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

Second half-day :3h30

Start-up (approx. 15 minutes): questions and answers, signing-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
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Module 4: Business & Technology Frameworks

(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: 7h

Third half-day: 3H30

Start-up (approx. 15 minutes): questions and answers, signing-in

Module 5: Culture, behavior and operating 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

Fourth half-day: 3H30

Start-up (approx. 15 minutes): questions and answers, signing-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 companies, large or small, wishing to train their teams in a new, advanced computer technology.

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 is used to check that skills have been correctly acquired.

Sanction

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