DASA Certified DevOps Fundamentals

Duration: 3 days

Course Overview

DevOps Fundamentals is the starting point for anyone involved in an Agile or DevOps team. Improved workflows and faster deployment start with an understanding of DevOps fundamentals by all team members.

The Certification is designed to provide the education necessary to build your DevOps vocabulary and to understand its principles and practices. With the help of DevOps concepts and terminology, real life case studies, examples, group discussions and extensive exercises you will acquire an understanding of DevOps.

Who should attend?

Individuals involved in IT development, IT operations, or IT service management. Individuals whose role are touched by DevOps and continuous delivery, such as the following IT roles: DevOps engineers, Product owners, Integration specialists, Operations managers, Incident and change managers, System administrators, Network administrators, Business managers, Automation architects, Enterprise architects, Testers.

Prerequisites & pre-reading guidelines

No specific prerequisites are necessary. However basic familiarity with Agile, Scrum, Lean, and ITSM principles is beneficial.

How certification is earned

At the end of the course there is the opportunity to sit the accredited DASA DevOps Foundation exam.

To prepare attendees for the certification exam there are frequent review questions and a mock exam held on the last day. Additionally, to help the attendees with revision there are homework exercises on both day 1 and day 2.

The 1-hour exam is independently invigilated by the relevant exam board.

Course Objectives

On completion of the DASA DevOps Fundamentals course, delegates will be able to:

- Explain the drivers responsible for the emergence of DevOps.
- Define and discuss the key concepts and principles of DevOps.
- List and explain the business benefits of DevOps and continuous delivery.
- Describe the Service Delivery process.
- Explain the concepts of test automation, infrastructure automation, and build and deployment automation.
- Describe how DevOps relates to Lean and Agile methodologies.
- Summarize case studies of IT organizations that are making the transformation to Adaptive IT and DevOps models.
- List the most common and popular DevOps tools.
- Discuss the critical success factors for DevOps implementation.

Context

This course provides the foundation for anyone interested or started working in DevOps. Further DASA DevOps processional certifications are recommended.

Related courses

- Using Cucumber with Selenium
- ISTQB® Certified Tester – Foundation Level
- ISTQB® Certified Tester: Advanced Level Test Analyst
- ICAgile Certified Agile Fundamentals

Course Outline

Module 1: Introducing DASA DevOps Fundamentals

- DASA DevOps Fundamentals – An Introduction
- Case Study - Easy Journey Airways

Module 2: Building the DevOps Context

- DevOps Evolution
- Business Benefits of DevOps
- DASA DevOps Principles
- Goals and Measurements

Module 3: Knowing DevOps for Individuals

- T-Shape Profiles
- DevOps Capabilities by DASA
- DASA DevOps Certifications

Module 4: Getting Acquainted with DevOps Culture and Behaviour

- Embracing a DevOps Culture
- Core Elements of a DevOps Culture
- Implementation of a DevOps Culture

Module 5: Understanding the Value of DevOps for Teams and Organizations

- Organizational Models
- Team Autonomy
- DevOps at Scale

Module 6: Getting Familiar with DevOps Management Practices

- ITSM
- Lean
- AGILE

Module 7: Getting Familiar with DevOps Technical Practices

- Architecture
- Modern Infrastructure and Cloud
- Operations

Module 8: Enabling DevOps Team Performance Through Continuous Delivery and Automation

- Software Delivery Automation Concepts
- Continuous Delivery Core Concepts
- Continuous Delivery Automation Concepts
- Continuous Delivery Automation Focus Topics

Module 9: Measuring the Performance - The Next Steps

- Analyse the Current Situation
- Improve Incrementally

Contact

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