

DevOps Fundamentals

DASA

DEVOPS AGILE
SKILLS ASSOCIATION

Duration: 3 Days

COURSE DESCRIPTION

Up to 200 times faster software deployment, 30 times increased deployment frequency, and 60 times higher change success rates, organizations such as Netflix, Spotify, and Facebook are revolutionizing the IT game by successfully implementing DevOps principles. The data does not lie. You do not have to be a hot Web company or a monster enterprise to be a DevOps leader. Companies, large or small, and young or 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.

DASA develops and evangelizes a vendor neutral DevOps qualification program for professionals, generates interest and awareness for the need for knowledge and skill development, promotes open source certification for DevOps knowledge and skills, and ensures quality of training for the market through a logical and threshold-driven qualification program.

DASA DevOps Fundamentals provides an extensive introduction to the core Agile DevOps principles covering the essential knowledge and skill competences that have been defined by DASA.

The DevOps Fundamentals qualification 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

COURSE OBJECTIVES

After completing this course, students 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.
- Know how teams can translate DevOps principles into tangible practices.
- Learn about modern operations in a DevOps context.
- Explain the concepts of test automation, infrastructure automation, and build and deployment automation.
- Describe how DevOps relates to Lean and Agile methodologies.
- Get insight into the various organizational DevOps models
- Identify how Cloud and Delivery pipeline automation optimize and accelerate the ways of working.
- Discuss the critical success factors for DevOps transformation.

COURSE OUTLINE

Module 1: DevOps - The Context

- DevOps Evolution
- Business Benefits of DevOps
- DASA DevOps principles
- Goals and Measurement

Module 2: DevOps for Individuals

- From Roles to T-shape DevOps Profiles

Module 3: DevOps for Teams and organizations

- Culture and Behavior
- Organizational Models
- Team Autonomy
- DevOps at Scale

Module 4: DevOps Practices

- ITSM
- Lean
- Agile
- Architecture
- Continuous Delivery and Automation
- Modern Infrastructure and Cloud
- Operations

Module 5: The Next Steps

- Analyze the Current Situation
- Improve Incrementally

PREREQUISITES

Basic familiarity with Agile, Scrum, Lean, and ITSM principles is beneficial.

WHO SHOULD ATTEND

The DevOps Fundamentals qualification is primarily aimed at:

- Individuals involved in IT development, IT operations or IT service management
- Individuals whose role is touched by DevOps and continuous delivery, such as the following IT roles:
 - DevOps engineers
 - Product owners
 - Integration specialists
 - Operations managers
 - Incident & change managers
 - System administrators
 - Network administrators

- Business managers
- Automation architects
- Enterprise architects

EXAM DESCRIPTION

Delivery	Paper-based
Format	Closed-book format, participants can bring scratch paper
Duration	60 minutes, 15-minute additional time for non-native candidates
# of questions	40, simple multiple choice (1 mark per question)
Pass Grade	65%