



DEVOPS AGILE
SKILLS ASSOCIATION

DevOps Fundamentals eLearning

Product Type: DASA DevOps eLearning
Level: Foundation
Domain: DevOps
Duration: 24 hrs
Language: English (en-US)
Delivery Format: Online eLearning

Course Description:

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 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 (DASA). This course is designed to provide the core education necessary to build your DevOps vocabulary, understand its principles and practices, and acquire a fundamental understanding of DevOps.

Audience:

- Individuals involved in IT development, IT operations, or IT Service Management (ITSM)
- 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 and Change Managers
 - System Administrators
 - Network Administrators
 - Business Managers
 - Automation Architects
 - Enterprise Architects

- Testers

Learning Objectives:

At the end of this course, you will be able to:

- Know the emergence, core concepts and principles of DevOps
- Know what DevOps means for you as professional and for your organization
- Know the essence of a DevOps culture
- Understand the key elements of a DevOps culture
- Know the important aspects when creating a DevOps culture
- Know the Operational models of DevOps
- Understand the need for autonomous teams
- Understand the impact of DevOps on Architecture with respect to deployment
- Understand governance within DevOps teams
- Understand Agile, Scrum, and Kanban and how these practices relate to one another
- Understand how ITSM processes relate to practices in a DevOps culture
- Understand how Lean is used to optimize processes
- Know how to provide a Value Stream Map for a given process
- Understand the way to harvest new and innovative ideas
- Know the impact of automation on Software Delivery processes
- Understand the benefits and core principles of Continuous Delivery
- Describe the key cloud principles of DevOps organizations
- Know the relevance of monitoring and logging DevOps

Prerequisites:

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

Course Materials:

- Online Course

Course Outline:

Module 1: Course Introduction

- Purpose of DevOps
- Course Overview
- Let's Talk DevOps: Meet the Expert!
- DASA Competence Framework
- Course Objectives
- DASA: Mastering DevOps in Practice (Knowledge and Skills)
- Exam

Module 2: DevOps Introduction

- Let's Talk DevOps: Meet the Expert!
- Emergence of DevOps
- Core Concepts of DevOps

Module 3: Culture

- Essence of a DevOps Culture
- Key Elements of DevOps
- Implementation of a DevOps Culture

Module 4: Organization

- Organizational Model
- Autonomous Teams
- Architecting for DevOps

- Governance

Module 5: Processes

- DevOps in Relation to ITSM
- Agile and Scrum
- Optimizing Processes Using Lean
- Business Value Optimization and Business Analysis Using Story Mapping

Module 6: Automation

- 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 7: Measure and Improvement

- Importance of Measurement
- Choosing the Right Metrics
- Monitoring and Logging

Exam Information

Delivery	Online and Paper-based
Format	Closed-book format, participants can bring scratch paper
Proctoring	Live/Webcam
Duration	60 minutes, 15 minutes additional time for non-native candidates
# of Questions	40 Multiple Choice Questions (MCQs) (1 mark per question)
Pass Grade	65%

Exam Prerequisites

- While there are no formal prerequisites, it is recommended that the participant has completed DASA DevOps Fundamentals training.

Proctor Requirements

- [\[Standard Procedures apply\]](#)

Exam Location

- Remote, at any approved location with a Webcam (home/office)

Exam Planning

- Exam is to be ordered separately.

- It is recommended to take the exam within 15 days of course completion. This will provide sufficient time to memorize and adopt the new knowledge, practice for the exam and will increase the success of passing the exam.

Course Delivery Requirements

- This is an Online course so that the participant can take it from anywhere.

Accreditation Requirements

The course is accredited by: [DASA - View Accreditor Fact Sheet](#)

Ordering Information:

- Description: DASA DevOps Fundamentals eLearning Course
- Code: DvOps1010

About The Seller

The DevOps Agile Skills Association (DASA) is an open, global initiative to develop standards for DevOps competencies that will benefit the individual, team, and organization. ITpreneurs is a DASA Courseware Partner, and Optimal Connections is both an accredited ITpreneurs training organization and a DASA Training Partner.

The DASA DevOps exams are delivered by APMG and iSQI. Exams for DASA DevOps portfolio can be taken on the last day of the course in the classroom or by using a web proctor.