DASA DevOps Fundamentals

Program Information

Certification: DASA DevOps Fundamentals
Duration: 2 Days / 16 hours
Domain: DevOps Transformation
Delivery Method: Classroom, Virtual Classroom, Self-study

Accreditor: DevOps Agile Skills Association (DASA)
Available Languages: English, German, French, Dutch and Spanish
Purchase Options: Pay per Use

Program Description:

DASA DevOps Fundamentals aims to simultaneously build the organization, team, and individual capability for organizations beginning/undergoing a DevOps transformation. This 2-day program provides learners an extensive introduction to the core Agile DevOps principles and approach defined by DASA for building high-performance organizations. It covers all essential knowledge and skill competencies defined by DASA to ensure you acquire a solid knowledge of DevOps concepts and terminology.

DevOps Fundamentals is for every IT organization undergoing transformation to be up-to-date with the latest practices in DevOps and ensure a strong footing for a successful transformation. It is to prepare organizations for the DevOps mindset, which includes people, processes, and culture. It aligns the vocabulary and the concepts of DevOps among all the employees. It emphasizes the cultural aspects, keeping in mind that technology is only one part of the transformation framework. The future is arriving faster than ever, and DevOps Fundamentals helps organizations ride the wave into an exciting DevOps future.

With DevOps Fundamentals, organizations can ensure all employees get the foundational skills and knowledge required to embark on a DevOps transformation journey. From what DevOps is all about, its origin, and evolution, to the current best practices along the dimensions of management, processes, and technology, DevOps Fundamentals focuses on the philosophy, culture, and people dimensions that are key to a successful DevOps transformation.

During a transformation journey, it is crucial for everyone in an organization that embraces DevOps principles to master the skills and competencies associated with DevOps. Just like a blacksmith knows exactly how to use a hammer and chisel, the DevOps professional knows how to work effectively in teams and how to leverage the DevOps automation platform. These journeys start with DevOps Fundamentals, a starting point for building a career in DevOps.

Audience:

The DASA DevOps Fundamentals certification adds value to individuals involved in IT development, operations, or service management and non-IT roles supporting IT teams. Its target audience includes but is not limited to:

Development & Operations	Business & Leadership	Support & Enablement
- Software Developers, Engineers and Architects - Quality Engineers and Testers - System and Network Engineers and Administrators - Automation Architects - Dev, Sec & Ops Engineers - Enterprise Architects - Incident and Change Managers - Integration Specialists	- Product Owners - Business Analysts - Business Managers - Operations Managers - Product Managers - Team Leads - Scrum Masters - Agile Coaches - Senior Management and C-Suite	- Support Engineers - Service Managers - Business users who are working with IT in getting business value created - HR - Finance - Governance - Legal

Learning Objectives:

DASA DevOps Fundamentals-certified professionals are able to:
- Participate successfully in the DevOps transformation within the organization by sharing a common understanding and vocabulary required for DevOps ways of working.
- Define and discuss the key concepts and principles of DevOps.
- Explain the core elements of a DevOps culture and its importance.
- Discuss the importance of automation and ways to implement it in the product life cycle.
- Describe how DevOps relates to Lean and Agile methodologies.
- Discuss metrics and success factors for DevOps transformations.
- Get insight into the various organizational DevOps models and related architectures.
- Explain the importance of sharing responsibility, knowledge and ways of working to enable successful collaboration.
- Identify the available resources of DASA guidance as an enabler of your DevOps implementation plan.

Prerequisites:
- Possessing some basic knowledge of Agile, Scrum, Lean, and ITSM principles is recommended but not required to complete the certification.

Program Materials:
- For Participants
  - Participant Book (eBook or printed)
  - Practice Questions
  - Quick Reference Cards
- For Instructors
  - Instructor Guide (eBook)
  - Presentations
  - Presentations as PDF
  - Practice Questions
  - Quick Reference Cards
  - Posters

Program Agenda:

Day 1	Day 2
Module 1: Introducing DASA DevOps Fundamentals	Module 6: Measurement
Module 2 - Building the DevOps Context	Module 7: Sharing
Module 3 - Culture	Module 8: DASA Guidance
Module 4 - Automation	Module 9: Exam Preparation Guide
Module 5 - Lean	Mock Exam

Program Outline:

Module 1: Introducing DASA DevOps Fundamentals
- Getting To Know Each Other & Sharing of Expectations
- Program Overview
- Certification Exam Details

Module 2: Building the DevOps Context
- Why DevOps?
- DevOps Definition
- DASA DevOps Principles
- CALMS - Five Lenses Focussing on DevOps

Module 3: Culture
- Introduction To DevOps Culture
- DevOps Culture For Teams
- Leadership For A DevOps Culture

- DevOps Culture For Individuals

Module 4: Automation

- Why Automate?
- Automation Enablers: Modern Infrastructure & Cloud Computing
- Automation Enables Continuous Delivery

Module 5: Lean

- Lean
- Agile
- Product Management
- Service Management
- Site Reliability Engineering
- Value & Experience Management

Module 6: Measurement

- Basics of Measurement
- Measuring Value
- Typical DevOps Metrics
- Monitoring & Analytics

Module 7: Sharing

- Organizational Models That Enable Sharing
- T-Shape Profiles Enable Sharing
- DevOps Teams
- Team Autonomy
- IT Architecture That Supports Sharing
- DevOps At Scale

Module 8: DASA Guidance

- DASA Big Picture
- High Level Implementation Plan of Next Steps For Participants and Organizations

Module 9: Exam Preparation Guide

- Mock Exam

Exam Information

Exam Description

DASA delivers the DevOps Fundamentals exams. The participants and training organizations can attain the vouchers for the exam through DASA.

Exam Facts

Delivery	Online
Format	Closed-book format
Proctoring	Live/Webcam
Duration	60 minutes, 15-minutes additional time for non-native English speaking candidates
# of questions	40, simple multiple-choice (1 mark per question)
Pass Grade	65%

Exam Prerequisites

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

Proctor Requirements

● [Standard Procedures apply]

Exam Location

● Remote, at any approved location with a webcam (home/office)

Exam Planning

● Exams can be taken on the last day of the program or later. DASA recommends you to attempt the final exam later but within 10 days after the completion of the program to go through the concepts. 10 days is considered the best retention time to prepare for the exam and score high marks.

Accreditation Requirements

The program is accredited by:

● DASA - View Accreditor Fact Sheet

Instructor Requirements

All courses have a standard operating procedure for onboarding instructors. This document describes the minimum requirements for all instructors for any course.

All instructors delivering the DASA DevOps Fundamentals must also meet the following additional criteria:

- No formal accreditation for trainers is required. The training partner is responsible for ensuring the trainer meets the requirements relevant for trainers.
- This means that trainers must have passed the exam 10% higher than the passing grade, they have attended a Train the Trainer session, and have experience in the DevOps domain.

Train The Trainer Program
- **TTT Duration:** 2 hours
- **TTT Delivery:** Virtual Session
- **Language:** English
- [Standard Procedures apply]