

3 Days

## DASA DevOps Fundamentals

The DevOps Fundamentals qualification enables the participants to understand the principles and practices of DevOps and build their DevOps vocabulary. It mainly deals with the DevOps key concepts, terminologies, illustrations, real-life case studies, and, etc., that comes with interactive group discussions and extensive exercises.

### Course Objective:

Upon completion of the DevOps fundamentals, the participant will become competent in the DASA qualification scheme that envelopes architecture and design, business value optimization, business analysis, test specification, programming, continuous delivery, infrastructure engineering, security, risk, and compliance.

The participant will be able to

- Comprehend the principles and concepts of DevOps
- Understand the drivers for DevOps emergence
- Automation concept for test, infrastructure, and deployment
- Understand the service delivery process
- Know about popular DevOps tools
- Know the factors responsible for DevOps successful implementation
- Explain the business benefits of DevOps and its continuation
- Lean and Agile methodologies for DevOps
- Learn Case Studies

## Course Details

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### Course Outline

#### 1. DevOps Introduction:

- Historical Development of DevOps
- Core concepts of DevOps
- Digital Transformation and DevOps
- Key elements of Business case
- Relationship between DevOps, Agile and Lean IT
- Principles, Aspects, and Benefits

#### 2. Culture:

- Definition, Aspects, and Elements of DevOps environment
- Build DevOps organization
- Team Building and DevOps Leadership
- Implementation of DevOps culture
- Build DevOps culture
- Characteristics and challenges of DevOps culture

#### 3. Organization:

- Impact of DevOps on Organization
- Conway's law and organization's Architecture
- Solutions for Autonomy problems

- Architecting for DevOps
- Microservices architecture
- DevOps governance

#### 4. Processes:

- Definition, and its key components
- DevOps and ITSM
- Agile and Scrum
- Optimization process with Lean
- Story Mapping
- Advantages and Disadvantages

#### 5. Automation

- Software Delivery Automation
- Core concepts for Continuous Delivery
- Continuous Delivery Automation Focus
- Emergence of Cloud Computing
- Cloud Service Concepts in DevOps organization
- Automated provisioning and Application Maturity

#### 6. Measurement and Improvement

- Importance of Measurement
- Three ways model of Feedback
- Right Metrics Selection
- Monitoring and Logging

## Who Should Attend

- Individuals involved in IT development, operations, or service management
- Individuals who are involved in DevOps IT roles such as
  - DevOps engineers
  - Product owners
  - Integration specialists
  - Operations managers
  - Incident and change managers
  - System administrators
  - Network administrators
  - Business managers
  - Automation architects
  - Enterprise architects

## Pre Requisite

Basic knowledge of Agile, Lean, and ITSM principles is recommended.

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