

DevOps Leader (DOL) Certificate Program

Course Summary

Description

The DevOps Leader course is a unique and practical experience for participants who want to take a transformational leadership approach and make an impact within their organization by implementing DevOps. Leading people through a cultural transformation requires new skills, innovative thinking, and transformational leadership. Leaders up, down and across the IT organization must align and collaborate to break down silos and evolve the organization.

The course highlights the human dynamics of cultural change and equips participants with practices, methods, and tools to engage people across the DevOps spectrum through the use of real-life scenarios and case studies. Upon completion of the course, participants will have tangible takeaways to leverage when back in the office such as understanding Value Stream Mapping.

The course was developed by leveraging key DevOps leadership sources to extract real-life best practices in leading DevOps initiatives, such as the Spotify Squad Model, and has been designed to teach the key differences and emerging practices for cultural transformation through leadership in a fast-paced DevOps and Agile environment.

This certification positions learners to successfully complete the DevOps Leader exam.

Objectives

After taking this course, students will understand:

- DevOps and time to market
- The business and IT perspectives
- Key differences between DevOps IT and traditional IT
- Planning and organizing
- Understanding performance and culture
- Measurement differences
- Designing a DevOps organization
- Focusing on what matters
- Ideas for organizing workflows
- Sharing information
- Defining meaningful metrics
- Value stream mapping
- The Spotify Squad model
- Managing culture change
- Popular tools and key practices
- Putting it all together

Topics

- Course Introduction
- DevOps and Time
- Key Differences Between DevOps IT and Traditional IT
- Becoming a DevOps organization
- Value Stream Mapping
- Value Stream Mapping Exercise
- Squad Organizational Model
- Managing Cultural Change
- Culture and its Impact on Performance
- Popular DevOps Tools and Practices
- Building a Business Case
- Bringing it all Together
- Additional Sources of Information
- Exam Preparations

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Course Summary (cont.)

Audience

- Anyone starting or leading a DevOps cultural transformation program
- Anyone interested in modern IT leadership and organizational change approaches
- Business Managers
- Business Stakeholders
- Change Agents
- Consultants
- DevOps Consultants
- DevOps Engineers
- IT Directors
- IT Managers
- IT Team Leaders
- Lean Coaches
- Practitioners
- Product Owners
- Scrum Masters
- System Integrators
- Tool Providers

Prerequisite

DevOps Foundation level certification

Duration

Two Days

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Course Outline

- I. **Course Introduction**
 - A. Course Goals
 - B. Course Agenda
- II. **DevOps and Time**
 - A. What Is DevOps?
 - B. Why Do DevOps
 - C. Companies Doing DevOps
 - D. The Magic Equation
- III. **Key Differences Between DevOps IT and Traditional IT**
 - A. What Sets DevOps IT apart from Traditional IT
 - B. How DevOps IT is Organized Differently
 - C. How to Perform to a Different Standard
 - D. How to Use Different Measurements
- IV. **Becoming a DevOps organization**
 - A. Transformational Leadership
 - B. Redesigning An Organization for DevOps
 - C. Design Principles
 - 1. Focus
 - 2. Work
 - 3. Information
 - 4. Metrics
- V. **Value Stream Mapping**
 - A. What is Value Stream Mapping?
 - B. Why Do We Need to Use this Framework?
 - C. Types of Maps
 - D. How to Create a Value Stream Map?
 - E. Types of Data to Collect
 - F. How to Handle Exceptions
- VI. **Value Stream Mapping Exercise**
- VII. **Squad Organizational Model**
 - A. Conway's Law
 - B. The Problem with Silos
 - C. Spotify's Squad Organization Model (Structure, Roles)
 - D. Squads
 - E. Tribes
- F. Chapters
- G. Guilds
- H. How to Reorganize in Order to Move to this Model
- VIII. **Managing Cultural Change**
 - A. What is Culture and How Does it Impact Performance?
 - B. Types of IT Culture
 - C. Cultural Traits of a DevOps Organization
 - D. How to Manage Change
- IX. **Culture and its Impact on Performance**
 - A. Types of IT Culture
 - B. What is a DevOps Culture
 - C. How To Manage Change
 - D. The Three Phases Of Change
 - E. Types of Changes That Need to be Implemented
- X. **Popular DevOps Tools and Practices**
 - A. DevOps Tools Periodic Table
 - B. Top DevOps Tool Categories
 - C. Common and Popular Practices
- XI. **Building a Business Case**
- XII. **Bringing it all Together**
- XIII. **Additional Sources of Information**
- XIV. **Exam Preparations**
 - A. Exam Requirements, Question Weighting, and Terminology List
 - B. Sample Exam Review