DevOps Foundation

Course Overview

This is a 2-day class

The course includes the latest thinking, principles and practices from the DevOps community including real-world case studies from high performing organizations including ING Bank, Ticketmaster, Capital One, Alaska Air, Target, Fannie Mae, Societe Generale, and Disney that engage and inspire learners, leveraging multimedia and interactive exercises that bring the learning experience to life, including the Three Ways as highlighted in the Phoenix Project by Gene Kim and the latest from the State of DevOps report.

Learners will gain an understanding of DevOps, the cultural and professional movement that stresses communication, collaboration, integration, and automation to improve the flow of work between software developers and IT operations professionals.

The course is designed for a broad audience, enabling those on the business side to obtain an understanding of Kubernetes and Containers. Those on the technical side will obtain an understanding as to the business value of DevOps to reduce cost (15-25% overall IT cost reduction) with increased quality (50-70% reduction in change failure rate) and agility (up to 90% reduction in provision and deployment time) to support business objectives in support of digital transformation initiatives.

Upcoming Dates

Date	Time	Where
10/31/2019	11:00AM - 7:00PM	Online LIVE
11/14/2019	9:00AM - 5:00PM	Online LIVE
11/25/2019	9:00AM - 5:00PM	Online LIVE
12/19/2019	9:00AM - 5:00PM	Online LIVE
01/06/2020	9:00AM - 5:00PM	Online LIVE
01/27/2020	9:00AM - 5:00PM	Online LIVE
02/17/2020	12:00PM - 8:00PM	Online LIVE
03/09/2020	9:00AM - 5:00PM	Online LIVE

View All Course Dates & Register Today

Who Should Attend

The target audience for the DevOps Foundation course includes Management, Operations, Developers, QA and Testing professionals such as: Individuals involved in IT development, IT operations or IT service management. Individuals who require an understanding of DevOps principles IT professionals working within, or about to enter, an Agile Service Design Environment. The following IT roles: Automation Architects, Application Developers, Business Analysts, Business Managers, Business Stakeholders, Change Agents, Consultants, DevOps Consultants, DevOps Engineers, Infrastructure Architect, Integration Specialists, IT Directors, IT Managers, IT Operations, IT Team Leaders, Lean Coaches, Network Administrators, Operations Managers, Project Managers, Release Engineers, Software Developers, Software Tester/QA, System Administrators, Systems Engineers, System Integrators, Tool Providers

Course Objectives

DevOps Foundation

The learning objectives for DevOps Foundation include an understanding of:
- DevOps objectives and vocabulary
- Benefits to the business and IT
- Principles and practices including Continuous Integration, Continuous Delivery, testing, security and the Three Ways
- DevOps relationship to Agile, Lean and ITSM
- Improved workflows, communication and feedback loops
- Automation practices including deployment pipelines and DevOps toolchains
- Scaling DevOps for the enterprise
- Critical success factors and key performance indicators
- Real-life examples and results

Course Outline

1 Exploring DevOps

Defining DevOps
Why Does DevOps Matter?

2 Core DevOps Principles

The Three Ways
The First Way
The Theory of Constraints
The Second Way
The Third Way
Chaos Engineering
Learning Organizations

3 Key DevOps Practices

Continuous Delivery
Site Reliability & Resilience Engineering
DevSecOps
ChatOps
Kanban

4 Business and Technology Frameworks

Agile
ITSM
Lean
Safety Culture
Learning Organizations
Sociocracy/Holacracy
Continuous Funding

5 Culture, Behaviors & Operating Models

Defining Culture
Behavioral Models
Organizational maturity models
Target Operating Models

6 Automation & Architecting DevOps Toolchains

CI/CD
Cloud
Containers
Kubernetes
DevOps Toolchain

7 Measurement, Metrics, and Reporting

The Importance of Metrics
Technical Metrics
Business Metrics
Measuring & Reporting Metrics

8 Sharing, Shadowing and Evolving

Collaborative Platforms
Immersive, Experiential Learning
DevOps Leadership
Evolving Change