



02
DAYS
COURSE

PREREQUISITE

Familiarity with IT terminology & IT related work experience are recommended.

PROGRAM DESCRIPTION



As organizations are facing new entrants in their respective markets, they need to stay competitive and release new and updated products on a regular basis rather than one or two times a year.

The DevOps Foundation course provides a baseline understanding of key DevOps terminology to ensure everyone is talking the same language and highlights the benefits of DevOps to support organizational success.

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.

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

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DELIVERED BY:



CERTIFIED BY:



DevOps FOUNDATION



OBJECTIVE.

- 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 01

EXPLORING DEVOPS

- Defining DevOps
- Why Does DevOps Matter?

02

DEVOPS PRINCIPLES

- The Three Ways
- The Theory of Constraints
- Chaos Engineering
- Learning Organizations

03

DEVOPS PRACTICES

- Continuous Delivery
- Site Reliability & Resilience Engineering
- DevSecOps
- ChatOps
- Kanban

04

FRAMEWORKS

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

05

OPERATING MODELS

- Defining Culture
- Behavioral Models
- Organizational Maturity Models
- Target Operating Models

06

DEVOPS TOOLCHAINS

- CI/CD
- Cloud
- Containers
- Kubernetes
- DevOps Toolchain

07

DEVOPS METRICS

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

08

SHARING & EVOLVING

- Collaborative Platforms
- Immersive, Experiential
- Learning
- DevOps Leadership
- Evolving Change

TARGET AUDIENCE

- 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
- Automation Architect
- Application Developers
- Business Analysts
- Business Managers
- Business Stakeholders
- Change Agents

LEARNER MATERIALS

- Sixteen (16) hours of instructor-led training and exercise facilitation
- Learner Manual (excellent post-class reference)
- Participation in unique exercises designed to apply concepts
- Sample documents, templates, tools and techniques
- Access to additional value-added resources and communities

CERTIFICATION EXAM

Successfully passing (65%) the 60-minute examination, consisting of 40 multiple-choice questions, leads to the DevOps Foundation Certificate. The certification is governed and maintained by the DevOps Institute.