

KOENIG SOLUTIONS • COURSE OUTLINE

EXIN DevOps Foundation

Learn the principles, practices and practical applications of DevOps across IT operations and application lifecycle management.

2 Days

DURATION

4

MODULES

44

TOPICS

COURSE OVERVIEW

The “EXIN DevOps Foundation” course is designed to provide candidates with a foundational understanding of DevOps principles, its practices, and its practical applications in IT operations and application lifecycle management. This 2-day course offers comprehensive insights into the historical development, key methodologies, and common misconceptions about DevOps, as well as practical knowledge on how to implement and sustain DevOps in various organizational environments.

WHO THIS COURSE IS FOR

IT Operations Staff

Application Developers

Project Managers

Scrum Team Members

IT Managers

LEARNING OBJECTIVES

- Explain the historical origins and definition of DevOps
- Identify key reasons organisations adopt DevOps
- Clarify common misconceptions about DevOps
- Describe core DevOps concepts such as value stream and deployment pipeline
- Explain the role of version control and configuration management
- Compare DevOps practices with traditional ways of working
- Assess the applicability and limitations of DevOps adoption
- Evaluate approaches to evolving architecture and organisational models

4 Modules, 44 Topics

DAY 1

Understanding DevOps Basics and Principles

01

DevOps Basics

DEVOPS ORIGINS

- Describe the historical developments from Waterfall to Scrum to Agile
- Describe the developments in virtualization and cloud computing that enable DevOps
- Explain how DevOps developed from a historical perspective

DEFINITION OF DEVOPS

- Outline how DevOps is an expansion of Lean and Agile thinking
- Explain that DevOps requires value stream thinking
- Clarify how DevOps can yield a greater return on IT than other practices

REASONS FOR USING DEVOPS

- Identify decreasing time to market as a reason for using DevOps
- Identify reducing technical debt as a reason for using DevOps
- Identify eliminating fragility as a reason for using DevOps

MISCONCEPTIONS ABOUT DEVOPS

- Clarify that DevOps is not a part of Agile
- Clarify that DevOps is more than tools and automation
- Clarify that DevOps is not a new profession

02

DevOps Principles

VALUE STREAM

- Define the concept value stream
- Explain the concept value stream map (VSM)
- Clarify how a VSM may help optimize processes in the business
- Explain why value stream thinking is the core of DevOps

DEPLOYMENT PIPELINE

- Define the concept deployment pipeline
- Identify the challenges when implementing a deployment pipeline

VERSION CONTROL

- Define the concept version control
- Explain why version control is important

CONFIGURATION MANAGEMENT

- Define the concept configuration management
- Explain why configuration management is important for DevOps

DEFINITION OF DONE (DOD)

- Explain why a clear DoD is important for working with a DevOps mindset

03

DevOps Key Practices

DIFFERENCES WITH TRADITIONAL PRACTICES

- Clarify how DevOps facilitates more frequent releases
- Clarify how DevOps focuses more on adding value to the business
- Explain that DevOps requires automation
- Clarify how DevOps deals with solving incidents and defects differently
- Clarify how DevOps needs continuous improvement

DEVOPS PRACTICES

- Outline the importance of a diverse team
- Outline the importance of visualizing work
- Outline why work in progress (WIP) and batch sizes should be limited
- List how DevOps incorporates operational requirements into Development
- Explain the importance of supporting innovation
- Identify ways to deal with bottlenecks

04

Practical Applications of DevOps

APPLICABILITY

- Characterize situations in which DevOps is feasible
- Identify conditions that make adoption of DevOps interesting for the business

LIMITATIONS

- Identify a lack of readiness to adopt DevOps
- Characterize monolithic IT infrastructure and architecture as a limitation for adopting DevOps

USING COMMERCIAL OFF-THE-SHELF SOFTWARE (COTS)

- Clarify the risk of COTS in strategic business lines
- Identify solutions for working with COTS when there is no other option

EVOLVING ARCHITECTURE AND ORGANIZATIONAL MODELS

- Identify the difficulties a rigid IT department poses on implementing DevOps
- Characterize the need for a flexible mindset to change and innovation

ITERATIVE PROGRESSION

- Recall that DevOps may start small and can be built up from there
- Recall that DevOps is a way of thinking, which may start anywhere in the organization

NOTES

- This structured format provides a comprehensive overview, guiding participants through the essentials of DevOps, ultimately equipping them with the skills and knowledge necessary to contribute effectively in a DevOps environment.

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

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