

DEVOPS FUNDAMENTALS

Overview

This course will help candidates to gain a solid understanding of what DevOps is all about, learn about Continuous Integration and Delivery and its role in DevOps. Candidates also can gain valuable skills and concepts regarding agile, scrum framework and how it fits with DevOps.

Who Should Attend?

Professionals in software and applications development

- IT department, as well as business analysts, project and product managers
- Anyone aspiring to gain knowledge of DevOps principles.

Course Outcome

Upon successful completion of this course, participants should be able to:

- Explain the drivers responsible for the emergence of DevOps.
- Define and discuss the key concepts and principles of DevOps.
- List and explain the business benefits of DevOps and continuous delivery.
- Describe the Service Delivery process.
- Explain the concepts of test automation, infrastructure automation, and build and deployment automation.
- Describe how DevOps relates to Lean and Agile methodologies.
- Summarize case studies of IT organizations that are making the transformation to Adaptive IT and DevOps models.
- List the most common and popular DevOps tools.
- Discuss the critical success factors for DevOps implementation.

Duration

3 days

Certificate

PeopleCert DevOps Fundamentals

Certification Body

PeopleCert

Course Outline

The content of this course is designed to support the course objectives.

Introduction: What is DevOps?

- Brief overview of the course, an introduction and how to use the most important features in this course.

Module 1: The Urgency for DevOps



- To discuss and understand the Business Value Delivery Problem and the IT Value Delivery Problem.

Module 2: Key DevOps Principles & Concepts

- To expose and discuss with attendees the principles and concepts as below:
 1. C.A.L.M.S and The Three Ways.
 2. Continuous Delivery Across The Deployment Pipeline.
 3. The Scope of The Full Stack

Module 3: The Full Stack – People and Culture Layer.

- What is a DevOps Culture.
- Transformational Leadership.
- What is a DevOps Team.

Module 4: The Full Stack – Processes and Practices Layer.

- The Evolution of DevOps Practices.
- The 15 Essential Practices of DevOps.

Module 5: Technology and Automation Layer

- Automation for the Deployment Pipeline
- Cloud Technology and Virtualization
- Architecting for Continuous Delivery