

# Certified DevOps Professional

Lead are advance your skills on the emerged software development process - DevOps to emphasize communication and collaboration between product, software developers, and operations professionals.

## Exam and Course Outline

**CODEC Networks Pvt Ltd**

507, New Delhi House, Barakhamba Road, New Delhi 110001 [trainings@codecnetworks.com](mailto:trainings@codecnetworks.com)

+91 11 43752299, 9971676124

## Course Overview

DevOps is an emerging set of principles, methods and practices for communication, collaboration and integration between software development (software engineering) and IT operation (systems administration/ infrastructure) professionals.

DevOps values the diversities in work, supports intentional processes that accelerate the rate by which businesses realizes the value, and measures the effect of social and technical changes. DevOps is a way of thinking and a way of working that enables an individual and organizations to maintain and develop sustainable work.

Certified DevOps Professional Training Certification exam is designed to emphasize on the collaboration and communication of IT-professionals (developers, operators and supporters) in the life cycle of applications and services, which leads to continuous integration (development to Operations and Support) and continuous development (developers, operators and support staff).

This course further cover different aspects of Software development life cycle, IT operations, continuous integration and testing and covers various concepts like build automation, integrating code changes automatically, accelerating product delivery, etc.

This course validates technical expertise in miscellaneous, operating, and managing distributed application systems on the various platform and prepare professional in this fast-growing field and will bridge the gap between software developers and operations. This course will also ensure that the candidate has professional level knowledge of the principles of continuous development and deployment, automation of configuration management, inter-team collaboration and IT service agility, using modern DevOps tools.

## About Exam

- **Certification Body:** BeingCert
- **Exam Name:** BeingCert® Certified DevOps Professional
- Multiple choice questions
- **No. of questions:** 40
- **Max marks:** 40, Required marks: 26(i.e.65%).
- **Duration:** 60 minutes

## Who Should Attend

The training and certification program is ideal for those working in positions such as, but not limited to -

- Business Analysts, Project Managers, Integration Specialists, Functional Managers, IT Architects, Operation Engineer, Data Analyst, Research Operational Analyst, IT Manager, Developers or anyone want to thorough understand all aspects of DevOps as a technology and its implementation.

## Course Duration

24 Hours (3 Days \* 8 Hours)

## Course Content / Outline

### Module 1: Introduction to DevOps:

- Definition of DevOps
- Importance of DevOps

### Module 2: Fundamentals of DevOps:

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

### Module 3: Essential Practices

- DevSecOps
- ChatOps
- Kanban

### Module 4: Business & Technology Structure

- Agile Overview
- ITSM (IT Service Management)
- Use of Lean in DevOps
- Safety Culture
- Learning Organizations
- Continuous Funding

### Module 5: DevOps Toolchain:

- Specific Tools for Automation
- CI/CD
- Cloud
- Containers
- Toolchain for DevOps

### Module 6: Measurement Metrics

- Measuring and Reporting Metrics
- Significance of Metrics
- Professional Metrics
- Metrics for Business
- Measuring & Reporting Metrics
- Implementing DevOps
- Challenges & Risks Involved
- Success Factors
- Collaborating Platforms

### **Module 7: Requirements for Becoming DevOps Organization**

- How to do planning and organizing
- Its Performance and Culture
- Measuring Differences
- Framing a DevOps organization
- Focusing on important matters
- Techniques for organizing workflows
- Sharing of information
- Measuring & Reporting Metrics
- Key tools and Key practices
- Managing culture change

### **Module 8: Mapping of Value Stream**

- Understanding Value Stream Mapping
- Why is it required
- Kinds of Maps
- Creation of Value Stream Map
- Different Kinds of Data to be collected

### **Module 9: Culture Change Management**

- Definition of culture and how it affects Performance
- Diverse IT Cultures
- Cultural Attributes of DevOps Organization