

# DEVOPS CERTIFICATION

Achieving the excellence



## UNICHROME

# Unichrone Training **Advantages**

- ✓ 2 Day Interactive Instructor –led Online Classroom or Group Training
- ✓ Course study materials designed by subject matter experts
- ✓ Mock Tests to prepare in a best way
- ✓ Highly qualified, expert & accredited DevOps trainers with vast experience
- ✓ Get 16 hours contact hours(PDU's) Certificate
- ✓ Interactive session with Case Studies
- ✓ Practice Tests with detailed answers and explanations
- ✓ DevOps Training course adhered with International Standards
- ✓ End-to-end support via phone, mail, and chat
- ✓ Convenient Weekday/Weekend DevOps Training schedule



# Importance of DevOps Foundation Certification

- ✓ The term DevOps is a combination of development and operations. It signifies the collaborative approach of the organization's application development and IT operation department. Applying DevOps framework enables the IT team to coexist with the application development team and align their tasks with business requirements. In addition, this framework allows organizations to integrate the processes between both teams to overcome the disadvantages of traditional models.
- ✓ The DevOps Training course is conducted across various countries globally. Participants can easily enroll for live online instructor-led method or in-classroom method of training. Qualified trainers further conduct mock tests and present case studies that can assist in understanding the framework better.

# About Unichrone



We are a professional training institute with an extensive portfolio of professional certification courses. Our training programs are meant for those who want to expand their horizons by acquiring professional certifications across the spectrum. We train small- and medium-sized organizations all around the world, including in USA, Canada, Australia, UK, Ireland and Germany.



Guaranteed Quality



Handpicked Trainers



Global Presence



Online Training Option

We've trained professionals across  
global companies

PHILIPS

AXCESS  
FINANCIAL PRODUCT MANAGEMENT

CLARIANT

AkerSolutions

WÜRTH

baycoat

DUPONT

DASHTI

GlobalSign

Triskele Labs

مصرف الراجحي  
Al Rajhi Bank

DHL

ARASCO  
أراسكو



## ELIGIBILITY CRITERIA

- ✓ There is no predefined criteria to get DevOps Foundation Certified. However, a basic IT Literacy would be an added advantage.

## WHO SHOULD ATTEND

- ✓ DevOps Engineers , Integration Specialists , Operations Managers , System Administrators , Network Administrators , Project Managers, Business Managers, Automation Architects, Application Developer / Software Programmer , Software Tester / QA, Business (Requirements) Analysts.

# DevOps Certification Advantages



CERTIFIES  
YOUR TALENT



HELPS  
BUILDING  
VALUES



GLOBAL  
RECOGNITION



PERFECT  
EXECUTION



BUILDS  
CUSTOMER  
LOYALTY



MORE  
EMPLOYABILITY  
OPTIONS

# Syllabus of DevOps Certification Training

## Lesson 01 – Overview of DevOps

1.	Introduction to DevOps
2.	Benefits of working in a DevOps environment Preview
3.	DevOps Lifecycle
4.	DevOps Stages
5.	DevOps Delivery Pipeline

## Lesson 02 – Version Control with Git

1.	Version Control Preview
2.	Git Introduction Preview
3.	Git Installation
4.	Commonly used commands in Git
5.	Working with Remote repository

# Syllabus of DevOps Certification Training

## Lesson 03 – Git, Jenkins & Maven Integration

1.	Branching and merging in Git Preview
2.	Merge Conflicts
3.	Stashing, Rebasing, Reverting and Resetting
4.	Git Workflows
5.	Introduction to Maven
6.	Maven Architecture
7.	Introduction to Continuous Integration
8.	Introduction to Jenkins

## Lesson 04 – Continuous Integration using Jenkins

1.	Jenkins Architecture
2.	Plugin Management in Jenkins Preview
3.	Jenkins Security Management
4.	Notification in Jenkins
5.	Jenkins Master-slave architecture
6.	Jenkins Delivery Pipeline
7.	Jenkins Declarative pipeline



# Syllabus of DevOps Certification Training

## Lesson 05 – Configuration Management Using Ansible

1.	Introduction to Configuration Management
2.	Infrastructure as Code
3.	Introduction to Ansible
4.	Ansible Architecture
5.	Inventory Management
6.	Ansible Modules
7.	AD-HOC Commands
8.	Ansible Playbooks Preview
9.	Ansible Roles

## Lesson 06 – Containerization using Docker

1.	Containerization Preview
2.	Namespaces
3.	Docker
4.	Docker Architecture
5.	Container Lifecycle
6.	Docker CLI
7.	Port Binding
8.	Detached and Foreground Mode
9.	Dockerfile
10.	Dockerfile Instructions
11.	Docker Image
12.	Docker Registry
13.	Container Storage
14.	Volumes
15.	Docker Compose
16.	Docker Swarm

# Syllabus of DevOps Certification Training

## Lesson 07 – Orchestration using Kubernetes

1.	Introduction to Container Orchestration
2.	Kubernetes Core Concepts
3.	Understanding Pods
4.	ReplicaSet and Replication Controller
5.	Deployments Preview
6.	DaemonSets
7.	Rolling Updates and Rollbacks
8.	Scaling Application
9.	Services
10.	Persistent Storage in Kubernetes
11.	Primitives for PersistentVolumeClaims
12.	Secrets and ConfigMaps
13.	Headless Services
14.	StatefulSets
15.	Helm Charts

## Lesson 08 – Monitoring using Prometheus and Grafana

1.	Introduction to Prometheus and Grafana
2.	Prometheus and Grafana Setup
3.	Monitoring using Prometheus
4.	Dashboard Visualization using Grafana
5.	Creating a Dashboard to monitor the Pipeline

# Syllabus of DevOps Certification Training

## Lesson 09 – Provisioning using Terraform

1.	Introduction to Terraform
2.	Terraform vs Ansible
3.	Terraform Architecture
4.	Terraform Configuration
5.	Terraform Common Commands
6.	Managing Terraform Resources
7.	Terraform State
8.	Terraform Project

## Lesson 10 – Selenium

1.	Introduction to Selenium
2.	Why Selenium?
3.	Selenium – Webdriver Preview
4.	What and why X-Path
5.	Handling different controls on Webpage
6.	Framework in Selenium
7.	Selenium Integration with Jenkins
8.	Implementation of Selenium in the Edureka's Project

# Syllabus of DevOps Certification Training

## Lesson 11– Nagios

1.	Introduction to Continuous Monitoring
2.	Introduction to Nagios
3.	Installing Nagios Preview
4.	Nagios Plugins(NRPE) and Objects
5.	Nagios Commands and Notification

## Lesson 12 – DevOps on Cloud

1.	Why Cloud?
2.	Introduction to Cloud Computing Preview
3.	Why DevOps on Cloud?
4.	Introduction to AWS
5.	Various AWS services
6.	DevOps using AWS

# Syllabus of DevOps Certification Training

## Lesson 13 – AWS EC2 and IAM

- |     |   |
|-----|---|
| 1.  | Virtualization                                      |
| 2.  | Amazon Web Services (AWS)                           |
| 3.  | Benefits of AWS                                     |
| 4.  | AWS Global Infrastructure                           |
| 5.  | AWS: IAM  |
| 6.  | Components of IAM                                   |
| 7.  | Managing users with IAM                             |
| 8.  | Amazon Machine Image (AMI)                          |
| 9.  | Security Groups in AWS                              |
| 10. | Virtualization                                      |
| 11. | Amazon Elastic Compute Cloud (EC2) and Its Benefits |
| 12. | Networking components associated with EC2           |
| 13. | Instance Store                                      |

## Format of DevOps Certification Exam

Examination Format	
Exam Name	DevOps Certification
Exam Format	Multiple Choice, Closed book
No of questions & Time	40 Questions & 1 Hour
Passing Score	26 marks required to pass (out of 40 available), equivalent to 65%
Exam Cost	Included in Training fees

To get you fully prepared with the knowledge and skills for the DevOps examination, a training session at Unichrone gives immense importance to mock questions at the end of every module and problem-solving exercises within the session. Prepared by DevOps certified faculty, the practice tests are a true simulation of the DevOps examination



# Contact Us

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