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# CNPE Certification Training

3 days (21 hours)

## Overview

The CNPE Certification validates advanced skills in Platform Engineering and cloud-native practices, which are at the heart of modern developer-centric platforms.

The CNPE Certification Training is dedicated to cloud-native Platform Engineering, a key discipline for designing, operating, and evolving modern developer-centric platforms.

It will enable you to master the fundamentals of Platform Engineering, design scalable platform architectures, integrate GitOps and CI/CD practices, ensure advanced observability, and implement effective governance without compromising the developer experience.

You will learn to build robust cloud-native platforms, optimize costs through a FinOps approach, strengthen security from the design phase, and ensure operational reliability using SRE practices. A significant portion of the course is dedicated to hands-on workshops, allowing for the immediate application of the concepts covered.

The final day is entirely dedicated to preparing for the CNPE exam, featuring a structured approach, a comprehensive review of the assessed areas, and a mock exam to maximize your chances of success. Like all our training courses, this one is based on current cloud-native standards and best practices from the CNCF ecosystem.

Like all our training courses, this one is based on the latest stable version of the [CNPE](#) certification and emphasizes a resolutely practical and operational approach.

## Objectives

- Design and operate a modern cloud-native platform
- Implement Platform Engineering and GitOps practices

- Improve the reliability, security, and scalability of platforms
- Optimize costs through a FinOps approach
- Effectively prepare for CNPE certification

## Target audience

- DevOps Engineers
- Platform Engineers
- SREs
- Cloud Architects

## Prerequisites

- Strong knowledge of cloud environments
- Solid understanding of Kubernetes
- Experience in DevOps or platform operations

## CNPE Certification Training Program

[Day 1 - Morning]

### Fundamentals of Cloud-Native Platform Engineering

- Understanding the Role of Platform Engineering in Modern Organizations
- Positioning of the Internal Developer Platform (IDP)
- Differences between DevOps, SRE, and Platform Teams
- Cloud-native principles: containers, orchestration, managed services
- Responsibilities and Scope of a Product Platform
- Hands-on workshop: Analyzing an existing platform and identifying key responsibilities.

[Day 1 - Afternoon]

### Architecture of cloud-native platforms

- Designing scalable and resilient architectures
- Using Kubernetes as a platform foundation
- Multi-cluster and multi-environment architecture patterns
- Managing dependencies and shared services
- Introduction to platform APIs
- Hands-on workshop: Mapping out a cloud-native platform architecture.

### Developer-centric platforms

- Developer Experience (DevEx) Concepts
- Developer Portals and Self-Service
- Application Environment Management
- Developer Workflow Automation
- Frictionless Governance
- Hands-on Workshop: Designing a Minimal Developer Portal.

[Day 2 - Morning]

## GitOps and Platform Automation

- Fundamentals of GitOps
- Declarative deployments and version control
- GitOps tools and Kubernetes integration
- Separation of platform and application responsibilities
- Environment Management via Git
- Hands-on workshop: Setting up a simplified GitOps workflow.

[Day 2 - Afternoon]

## CI/CD and cloud-native pipelines

- Integrating CI/CD into a cloud-native platform
- Securing pipelines
- Staged deployments: blue/green, canary
- Managing secrets and sensitive variables
- Pipeline observability
- Hands-on workshop: Building a cloud-native CI/CD pipeline.

## Platform observability and reliability

- Monitoring, logging, and tracing concepts
- Defining SLIs, SLOs, and SLAs
- Platform incident management
- Intelligent alerting and noise reduction
- The role of SRE in the platform
- Hands-on workshop: Defining SLOs for a Kubernetes platform.

[Day 3 - Morning]

## Platform security and governance

- Cloud-native security by design
- Identity and access management
- Kubernetes security policies

- Securing the CI/CD Pipeline
- Governance and Compliance
- Hands-on workshop: Security posture analysis of a platform.

[Day 3 - Afternoon]

## FinOps and Cost Optimization

- Introduction to Cloud-Native FinOps
- Cost Measurement and Allocation
- Kubernetes resource optimization
- Performance vs. Cost Trade-offs
- Empowering Teams
- Hands-on Workshop: Analyzing and Optimizing Platform Costs

## Preparation for CNPE certification

- Structure and objectives of the CNPE exam
- Review of assessed competency areas
- Methodology for the practical exam
- Time management and scenario handling
- Best practices on exam day
- Practical workshop: Mock exam + review.

## Relevant companies

This training is designed for both individuals and businesses—large or small—that wish to train their teams in new, advanced IT technologies or to acquire specific industry knowledge or modern methodologies.

## Entry-Level Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

## Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

## Organization

The course alternates between theoretical input from the trainer, supported by examples and

reflection sessions, and group work.

## Assessment

At the end of the session, a multiple-choice questionnaire verifies that the skills have been properly acquired.

## Certification

A certificate will be issued to each participant who has completed the entire training program.