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Register

CNPE Certification Training
3 days (21 hours)

Overview

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

The CNPE Certification Training is dedicated to cloud-native Platform Engineering, a key discipline for designing, operating, and evolving modern developer-oriented 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 how to build robust cloud-native platforms, optimize costs through a FinOps approach, strengthen security by design, and ensure reliable operations through SRE practices. A large part of the program is devoted to hands-on workshops, allowing for immediate application of the concepts covered.

The last day is entirely devoted to preparing for the CNPE exam, with a methodological approach, a comprehensive review of the areas assessed, 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 favors 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
- SRE
- Cloud architects

Prerequisites

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

Our 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: Analysis of an existing platform and identification of key responsibilities.

[Day 1 - Afternoon]

Cloud-native platform architecture

- Designing scalable and resilient architectures
- Using Kubernetes as a platform foundation
- Multi-cluster and multi-environment architecture patterns
- Dependency and shared service management
- Introduction to platform APIs
- Hands-on workshop: Schematization of a cloud-native platform architecture.

Developer-oriented 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.

GitOps and platform automation

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

CI/CD and cloud-native pipelines

- Integrating CI/CD into a cloud-native platform
- Securing pipelines
- Gradual 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
- Definition of SLIs, SLOs, and SLAs
- Platform incident management
- Intelligent alerting and noise reduction
- Role of SRE in the platform
- Hands-on workshop: Defining SLOs for a Kubernetes platform.

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: Analyzing a platform's security posture.

[Day 3 - Afternoon]

FinOps and cost optimization

- Introduction to cloud-native FinOps
- Cost measurement and allocation
- Kubernetes resource optimization
- Performance/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 the areas of expertise assessed
- Methodology for the practical exam
- Time management and scenarios
- Best practices on exam day
- Practical workshop: Mock exam + correction.

Companies concerned

This training is aimed at both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

Placement at the start of training

The placement test at the start of the training course complies with Qualiopi quality criteria. Once they have finalized their registration, learners receive a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives for the upcoming training course, 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 be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 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 is used to verify that the skills have been correctly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training course.