Continuous Delivery Ecosystem Foundation (CDEF)®

TRAINING DATASHEET

Learn how to architect and orchestrate effective and efficient automated deployment pipelines while delivering higher quality solutions, reducing risk and lowering costs to accelerate business value.

COURSE SYPNOSIS

This course is designed for participants who are engaged in the design, implementation, and management of DevOps deployment pipelines and toolchains that support Continuous Integration, Continuous Delivery, Continuous Testing and potentially Continuous Deployment. The course highlights underpinning processes, metrics, Application Programming Interfaces and cultural considerations with Continuous Delivery.

Key benefits of Continuous Delivery will be covered including increased velocity to assist organizations to respond to market changes rapidly, thus being able to outmaneuver competition, reduce risk and lower costs while releasing higher quality solutions. Increased productivity and employee morale by having more activities performed by pipelines instead of humans so teams can focus on vision while pipelines do the execution.

Built upon the principles and practices of the bestselling book "Continuous Delivery" by Jez Humble and David Farley, and the "Continuous Delivery Live Lessons" video course by Jez Humble, the Continuous Delivery Ecosystem Foundation course equips IT professionals with the broad-based competencies necessary in architecting and orchestrating effective and efficient automated deployment pipelines.

DevOps Institute PREMIER PARTNER 2022

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COURSE DURATION

2 Days Instructor-Led Classroom Training

COURSE OBJECTIVES

On completion of this course, the following learning outcomes will be achieved:

- Goals, history, terminology, and pipeline
- The importance, practices, and transformation of a DevOps collaborative culture
- Design practices, such as modular design and microservices
- Continuous Integration (CI), such as version control, builds, and remediation
- Tenets and best practices of Continuous Testing (CT)
- Continuous Delivery and Deployment (CD): packaging, containers, and release
- Continuous Monitoring (CM): monitoring and analysis of infrastructure, process, and apps
- Infrastructure and tools: frameworks, tools, and infrastructure as code
- Security Assurance: DevSecOps

WHO SHOULD ATTEND

The target audience for this course are professionals, such as:

- Build Engineers
- Enterprise Architects
- IT Managers
- Maintenance and Support Staff
- Operational and Infrastructure Teams
- Project Managers
- QA Managers
- Release Managers and Engineers
- Software Developers
- Security Professionals
- Testers

OUTLINE

- CDEF Concepts
  - Architecting for continuous delivery
  - Continuous delivery and DevOps
  - Relationships between CD, Waterfall, Agile, ITIL, and DevOps
  - Benefits of continuous delivery
- CDEF Culture
  - Importance of culture to the CD Architect
  - How to maintain culture
- Design Practices for Continuous Delivery (CD)
  - CD Architect's role in design
  - Key design principles
  - CD best practices
  - Microservices and containers
- Continuous Integration (CI)
  - CD Architect's role in CI
  - Importance and Benefits of CI
  - CI best practices
- Continuous Testing (CT)
  - Importance and benefits of CT
  - CD Architect's role in CT
  - Five tenets of CT
  - CT best practices
- Continuous Delivery and Deployment
  - Benefits of continuous delivery and deployment
  - CD Architect's role in continuous delivery and deployment
  - Continuous delivery and deployment best practices
- Continuous Monitoring
  - Importance of continuous monitoring
  - CD Architect's role in continuous monitoring
  - Continuous monitoring best practices
- Infrastructure and Tools
  - Importance of infrastructure and tools
  - CD Architect's role in infrastructure and tools
  - Building a DevOps toolchain
  - Infrastructure/tools best practices
- Security Assurance
  - Importance of security assurance
  - DevSecOps and Rugged DevOps defined
  - CD Architect's role in security
  - Security best practices

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CERTIFICATION

Participants who successfully complete the course and pass the examination will be recognized as Continuous Delivery Ecosystem Foundation (CDEF) certified which is issued and governed by DevOps Institute. Delegates who do not attain a passing score for the examination would be awarded a course attendance certificate only.

PRE-REQUISITES

There are no prerequisites to attending the Continuous Delivery Ecosystem Foundation course or sitting the certification examination. Familiarity with DevOps definitions and principles are essential.

PRE-COURSE READING

There are no pre-course reading resources or assignments prior to attending the course.

EXAMINATION FORMAT

- 40 Multiple Choice
- 1 mark per correct answer
- 26 marks required to pass (out of 40 available) – 65%
- Sixty minutes duration
- Web-based Open-book exams

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