

# Continuous Delivery Architecture (CDA)

Duration 2 Days

## COURSE DESCRIPTION

A continuous delivery architect is a tool-agnostic individual 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. A continuous delivery architect is also involved in defining or integrating underpinning processes, metrics, APIs and cultural considerations. The CDA course equips IT professionals with the broad-based competencies necessary to architect and orchestrate effective and efficient automated deployment pipelines. As part of the Pearson partnership, each learner will be provided digital access to the “Continuous Delivery” ebook and video Live Lessons. The course materials will also include practical artifacts, templates. The course culminates in a certification exam administered by PEOPLECERT, DOI’s examination partner. Successful exam candidates will be designated as “Continuous Delivery Architects” and will be issued a certificate and digital badge.

## COURSE OBJECTIVES

The learning objectives for CDA include a practical understanding of:

- 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 infrastructure, process, and apps
- Infrastructure and tools: frameworks, tools, and infrastructure as code
- Security Assurance: DevSecOps
- The opportunity to hear and share real life scenarios

## COURSE OUTLINE

- The Principles of Continuous Integrations and Continuous Deployment
- Continuous Delivery Vs DevOps
- Continuous Integrations Practices
- Extending CI To CD
- Principles for Architecting a Deployment Pipeline
- Engaging Ops in Continuous Delivery
- Testing and Continuous Delivery
- Security and Continuous Delivery
- Continuous Deployment and Automated Release
- Cultural and People Consideration
- Change Resistance
- Metrics
- Critical Success Factors, Risks and Challenges
- Getting Started

## CERTIFICATION

Successfully passing the certification exam leads to the candidate's designation as a certified DevOps Continuous Delivery Architect (CDA)<sup>SM</sup>. The certification is governed and maintained by the DevOps Institute; exams are delivered through an independent, global examination partner.

## PREREQUISITES

- DevOps Foundation® Certification Course
- Completion of pre-class assignment

## WHO SHOULD ATTEND

Anyone involved in or interested in learning about the principles of Continuous Integration and Continuous Delivery.

Also:

- Enterprise architects
- Software developers
- Build engineers
- Release managers and engineers
- Operational and infrastructure teams
- Security professionals
- Testers and QA managers
- IT Managers
- Project Managers
- Maintenance and support staff