Certified Agile DevOps Practitioner (CADP)

Modality: Virtual Classroom

Duration: 2 Days

About this course:

The **Certified Agile DevOps Practitioner (CADP)** certification training from QuickStart is intended for the Agile Engineers at organizations that are engaged setup and maintenance the environments and the organizational governance around DevOps. The core focus is on enabling those who are leading Agile development practices and engineering implementation with the primary skills they will need to be successful.

The focuses of the **CADP** certification training are the core Agile Engineering skills needed for achieving quality the Agile way. Understanding the vision and why our organization is implementing DevOps and then creating a strategic roadmap that is unique to you organization is one of the foundational goals of understanding in this training. The next primary goal is understanding how the configurations align with the organizational vision and the order that will most effectively improve the development.

What sets the certification training provided by QuickStart apart is the focus on exercises that both reinforce the topic information, and create confidence in the participants so they can perform the activities once they return to their workplace. We do believe things like the history of certain different tools, patterns, and the “thought leaders” are important, but, classroom time is limited, and we believe that the time interacting with instructors experienced in the field is best spent getting to the understanding of how things work. We include history lessons where they belong, in the appendix of the workbooks that we supply along with the courses that we provide.

Real knowledge comes from doing, so we dedicate a significant portion of the classroom time focused on workshop activities that develop critical Agile product management skills. Including developing a DevOps strategy, understanding the ROI, development governance & standards, architectural and deployment patterns that reduce risk, leveraging cloud services, reducing the fragility of legacy code with containerization, building Jenkins farms for huge enterprise systems, and using telemetry metrics to identify problem patterns before they become an issue.

Our goal is the success of our students, and we have made an effort to include everything that will help them in their particular role. We are continuously updating and adding to the content that we make available. Of important note, we are a company that does what it teaches, and we provide our students what we use when delivering at clients. We make everything that we have empirically proven to be useful, available to our certification training participants.

Course Objective:

- Strategic roadmap for taking the organization to high levels of maturity
- Understanding the ROI of DevOps
- Governance for DevOps and development

- DevOps as a service and building a deployment pipeline
- Enterprise build server configuration
- Recommended end-to-end test tool recipes and deployment roadmap
- Environment setup for scaled organizations
- Emergent, Agile infrastructure and system architecture
- Choosing architectural patterns for flexibility, modularity and reduced risk including modular Service Oriented Architecture (SOA) with an Enterprise Service Bus and web services strategies
- Microservices, setting up load balancing for Blue-Green environments for implementation risk reduction and improved failover
- The use of both onsite and cloud-based virtualization strategies including virtualization with AWS, Google cloud, and Azure to emulate production environments
- Automation tools for cloud environments including Spinnaker to include Chaos Monkey and Symbian Army
- Transformation Strategy - Moving from a fragile legacy environment to encapsulation and encapsulation for new and legacy code (Docker)
- Jenkins server farms (Chef, Puppet) for large/scaled environments
- Using small deployments to reduce impact, improve traceability and simplify rollbacks
- Feature toggles
- Dark launches
- Canary Releases
- Using Telemetry to identify and even preempt production issues
- Question and answer session and wrap-up

Course Outline: