

Course Code: 111228

This three-day DevOps training class is loaded with practical real-world tools and techniques to help you implement DevOps within your organization.

For decades there have been big disconnects between the different roles of the IT shop. We struggle with inherent barriers between development projects and the stable infrastructure needed to deploy and run products. Applications get completed and tested in insulated internal environments without adequate collaboration between production IT staff and infrastructure administrators. Unforeseen challenges plague the production environment, wreaking havoc with deadlines, deliverables, and ultimately the business mission. Security is often a wet blanket at best, and an afterthought at worst. In the meantime, huge backlogs of work and technical debt pile up, chronically eroding the efficiency and agility of the business' IT capability.

This three-day DevOps Implementation training class is loaded with practical real-world tools and techniques. From the nation's largest Agile development trainers comes a comprehensive program to get you started on the road to DevOps success. You will leave this course fully literate in the whole array of available DevOps tools and lessons, ready to select what's right for you and chart a path to holistic long-term IT success in your own organization.

Attendees who successfully complete this course receive the ICP designation after course completion. The ICP-FDO is one of two Continuous Learning Certifications (CLCs) on the DevOps Track. This certification provides an overview of core concepts for DevOps and is geared towards a broad audience of professionals, technical and non-technical. The learning objectives cover areas such as the business case for DevOps, Continuous Integration, Continuous Delivery, accompanying cultural changes, operational considerations, configuration management, etc. Participants who complete this certification will gain an excellent foundation in DevOps concepts and ingredients for a successful transition.

This course is delivered by ASPE, an ICAgile Member Organization.

#### What You'll Learn

- Learn to leverage infrastructure automation using configuration tools
- Chart a path to continuous IT operations

- Learn how to spot positive feedback loops in IT work and capitalize on them
- Get real-world techniques for implementing agile concepts into infrastructure management
- Learn how to continuously monitor capacity and operations
- Map and visualize IT workflow to eliminate bottlenecks and streamline capacity
- Learn techniques to effectively communicate the progress and results of your DevOps efforts to management
- In-class discussion on the state of laaS and PaaS, and expert updates on which cloud capabilities you should be aware of or considering
- Implement a plan for leadership participation and transformation of the IT mentality
- Transform IT from an unpredictable cost center to a strategic source of business value and competitive advantage

### Who Needs to Attend

- Anyone in an IT Leadership role
- CIOs / CTOs
- System Administrators
- IT Operations Staff
- Release Engineers
- Configuration Managers
- Anyone involved with IT infrastructure
- Developers and Application Team leads
- ScrumMasters
- Software Managers and Team Leads
- IT Project & Program Managers
- Product Owners and Managers



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**CLASSROOM LIVE** 

\$1,695 USD

3 Day

### Classroom Live Outline

- DevOps More than just Dev and Ops
  - - Siloes of job function vs. alignment of mission
    - Maste, batching and flow
  - - ☐ The Continuous Delivery Movement
- Maturing a DevOps Practice in the Enterprise
  - - 🛮 Culture vs. individual work
    - M How to present the business case to leadership
    - $\[ \]$  How to keep leadership involved
    - $\[ \]$  How to dissolve operational silos over time
  - A Patterns You Can Follow
    - Lean Startup Teams
    - $\overline{\mathbb{N}}$  Collaboration Tools
    - Automate Everything You Can
    - $\[ \]$  Key tooling & automation groups
    - Reserve Time for Improvement
  - - Detecting uneven demand
    - Resolving overburdened teams
    - Applying waste principles and management to IT

 ■ Security management and process Resolving stakeholder conflicts Automation ■ Benefits of Automation: What to expect □ Disruptions of Automation M How to prevent new bottlenecks Automating Deployments ■ Leveling workflow around automation tools ■ Selecting the Value Stream to Start With ∇alue Stream Mapping Your DevOps Journey: Optimize Flow □ Principles of Flow M Configuration Management Tools Examples: Chef. Puppet, Ansible. Salt Models with proven enterprise track records M Where to target value with laaS □ Deployment Pipeline Moving towards continuous deployments Deployment Tools Examples: Jenkins & Maven ▼ Version Control Tools Examples: Git & Github Artifact Management Tools Examples: Artifactory & Nexus □ Discussion: Automating Deployment Pipelines Automated Testing ▼ Testing Tools Examples: Selenium, Cucumber, & TDD toolsets 

Architecture for Reduced Risk Deployments & IT Ops Microservices ∇irtualization & The Cloud Your DevOps Journey: Amplify Feedback ▼ Telemetry: Metrics, Monitoring, Alerting System Monitoring Tools Examples: Nagios, Monit & PagerDuty M How to choose tools and analyze their costs ■ Building M&M into operational processes □ Using Telemetry to Anticipate Problems Your DevOps Journey: Continual Learning & Experimentation ■ Learning Culture Rehearsing Failures Reserve Time for Organizational Learning Conclusion and Charting Your Course ■ Establishing a timeline 

#### **Bonus Materials**

- The "DevOps Glossary of tools:" a catalog of resources with descriptions and guidance on more than 80 open-source and proprietary tools to help your IT teams succeed
- The DevOps Handbook: How to Create World-Class Agility, Reliability, and Security in Technology Organizations by Gene Kim, Patrick Debois, John Willis, Jez Humble, (Foreword by) John Allspaw.



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VIRTUAL CLASSROOM LIVE

\$1,695 USD

3 Day

### Virtual Classroom Live Outline

- DevOps More than just Dev and Ops
  - - Siloes of job function vs. alignment of mission
  - - ∏ Toyota, total quality, & Deming

    - The Continuous Delivery Movement
    - Exercise: IT Lifecycles Points of Pain
- Maturing a DevOps Practice in the Enterprise
  - - M How to present the business case to leadership
    - $\[ \]$  How to keep leadership involved
    - $\[ \]$  How to dissolve operational silos over time
  - A Patterns You Can Follow
    - Lean Startup Teams
    - $\overline{\mathbb{N}}$  Collaboration Tools
    - Automate Everything You Can
    - $\[ \]$  Key tooling & automation groups
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PRIVATE GROUP TRAINING

3 Day

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