

Implementing DevOps

14 PMI PDUs | 14 IIBA CDUs



Joel Foner
Instructor

Format: Live Instructor-Led
Online through Zoom

Date: June 21 - 23, 2027

Time: 12:00 PM - 4:30 PM ET

Price: \$500 per person

To register:

Email Chris Remmert
cremmert@nysforum.org
and indicate the course
title in the subject line.

Technology and Attendance

Requirements:

Computer with a
browser, Zoom, a
microphone and
speaker. For this
workshop, camera
should be on if possible
and you must be
actively participating.

ARE YOU A DEVELOPER OR OPERATIONS STAFF MEMBER WORKING
IN A DEVOPS ENVIRONMENT?

Applying DevOps requires well-defined goals and a good
understanding of the different tools available and which ones are right
for you.

This course will provide you with hands-on experience of a DevOps
environment: planning and setting the strategy; designing and
implementing the pipeline; automating the provisioning and
configuration of infrastructure and deployment of systems; monitoring
the pipeline and the systems with telemetry; identifying bottlenecks;
and applying continuous improvement to evolve the pipeline and the
architecture.

Certification



This course will contribute 14 PMI® professional
development units (PDUs) towards your chosen
certification (2 Power Skills, 4 Business Acumen and 8
Ways of Working).

Learning Outcomes:

- Be able to identify policies and processes to support DevOps and prepare a strategy for continuous delivery.
- Understand the impact of various architectural patterns on DevOps.
- Design a deployment pipeline and implement it.
- Automate the provisioning and configuring of environments in the cloud.
- Implement telemetry monitoring to support continuous improvement.
- Learn techniques for involving the customer in continuous improvement efforts.
- Know how to mature the pipeline, including evolving the architecture, using virtualization and cloud computing, and ensuring compliance and governance is maintained

Great for:

- Developers working in DevOps teams.
- Operations staff supporting or working in DevOps teams.

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Prerequisites

This is an advanced technical course. To get the most out of this course, you should have an understanding of fundamental agile and DevOps concepts. These are covered in our Agile Fundamentals and Foundation of DevOps courses. Experience using command lines is also important as some of the hands-on work is performed in a Bash shell.

Content:

Continuous improvement follows a Plan-Do-Study-Act cycle, and this course follows that cycle.

Plan – identify the objectives.

- Identify what changes are needed in the culture, policies, and processes.
- Use Value Stream Mapping to identify waste in the process.
- Apply the Theory of Constraints to improve the process.
- Define an architecture, including the pipeline and its stages, to support the goals.

Do – build the pipeline.

- Implement the pipeline (as code) in Go CD.
- Evaluate the benefits of automating each stage in the pipeline.
- Provision a VM in AWS EC2 with Terraform.
- Configure the VM and deploy the system with Ansible.

Study – monitor the pipeline.

- Manage log data with the Elastic stack:
 - Collect log events with Logstash,
 - Aggregate them in Elasticsearch,
 - Analyze them with Kibana.
- Evaluate the benefits of different types of telemetry and the policies around it.
- Diagnose problems using the telemetry.
- Identify symptoms of security problems using the telemetry – DevSecOps.
- Evaluate policies and practices for support in production.
- Use formal techniques to elicit feedback from the users and customers.

Act – mature the pipeline

- Evolve the architecture in response to issues identified, for example:
 - Moving to microservices to address deployment problems.
 - Using cloud computing and containers to address performance and scalability.
- Evolve the pipeline in response to issues identified:
 - Evaluate release patterns to address deployment problems.
 - Engineer the pipeline to make it more robust.
 - Ensure compliance and governance needs are satisfied.

Lecturing is kept to the minimum necessary where most of the learning is achieved by applying the practices and techniques in group exercises. Our LiveOnline delivery is over three days (each four and a half hours in duration). The instructor is 100% live and interaction and learning objectives are the same as our in-person classes with the added benefit of being able to take this course from your home, your office or your home office. Since this class is delivered over half-days it allows for greater flexibility and leaves you with time each day for other work or activities.