

**DevOps Boot Camp**

**Course Number:** DVOP-134  
**Duration:** 3 days

**Overview**

Accelebrate's DevOps training teaches operations staff how to use the various tools under the DevOps umbrella. By the end of the class, students will have a code-base that they can refer to when solving real business problems.

**Prerequisites**

Having some development, QA, or operations experience is recommended.

**Materials**

All DevOps training attendees receive comprehensive courseware

**Software Needed on Each Student PC**

Accelebrate can provide a remote lab environment for this class.  All attendees should have computers with Internet access and a modern web browser (ideally Chrome).

**Objectives**

* Develop an understanding of what DevOps is and is not
* Understand the objectives, terminology, and benefits of DevOps
* Learn to create and manage the cultural change and mindset required for successful DevOps implementation
* Gain insight into common DevOps concepts and practices, including its relationship to Agile, Lean and IT Service Management (ITSM)
* Discover methods to improve workflows, break down communications stovepipes and improve the efficiency of the delivery process
* Explore how critical success factors, feedback loops, and key performance indicators will help drive continuous improvement
* Discover techniques for teams and individuals to realistically follow these principles and practices in a disciplined way

**Outline**

* Introduction
* What is DevOps…Really?
  + Establishing expectations for the next three days
  + Understanding the anatomy of DevOps
  + What DevOps is not
  + Beginning to define what DevOps is
  + Context from DevOps history
  + Organizations leading the way
  + The goals of a DevOps practice
  + What to expect from a DevOps practice
  + Business outcomes of DevOps maturity
* The Cultural Components of DevOps
  + State check: an Agile review
  + Examining typical misalignments
  + Siloes of job function vs. alignment of mission
  + The change management challenge
  + Adjusting institutional incentive
  + Agile team alignment
  + Cross-functional teams
  + Culture and continuous delivery
  + The deployment pipeline concept
  + A new way of testing
  + The role of automation
  + Shifting towards CD culture
* Implementing the DevOps Way of Work
  + The anatomy of a DevOps mentality
  + The DevOps mindset
  + The first way: System Thinking
  + The second way: Amplify feedback loops
  + The third way: continuous improvement
  + Lean Startup Teams and incentives
  + Configuration Management
  + Snowflake Servers
  + Server Sprawl
  + Configuration Drift
  + Principles of configuration management
  + Applying configuration management
  + Tools for configuration management
* DevOps Tooling
  + Contemporary DVCS version control
  + GitHub
  + Mercurial
  + Automation
  + What to expect from automation
  + The disruptions of automation
* Charting your course
  + Revisiting continuous delivery & operation
  + Clarifying expectations
  + DevOps in the enterprise
  + Scaling DevOps
  + DevOps resources: the Techtown tools glossary
  + 12 steps to better code
* Conclusion