

**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