Course 1 - 0 - Overview (DevOps Practitioner)

# Logistics

**Day 1**

[~~Attendee background survey~~](https://forms.gle/G2J7vsJRDhdtath97)

[~~End of day-1 feedback~~](https://www.surveymonkey.com/r/NBKJBF7?trainer=akshatha&company=XanderTalent&milestone_id=00060315_01&course=tableau%20training&geo=ROW&type=ELVC&Webex_Session_ID=1849146527)

**Last Day (march 19)**

[class eval](https://www.surveymonkey.com/r/NBKJBF7?trainer=sujeemaniyam&company=caltech%20inc&milestone_id=00060058_01&course=devopscertificationtraining=US&type=ELVC&Day=1Webex_Session_ID=1842479408)

# Big Picture



## Course 1 - Devops Certification Training

* [Devops intro](https://docs.google.com/document/d/1YcxpHV7z0h8ZIMaIAby3Jc2Vy3_1GVJILjiVdWfhjpU/edit#)
* [Git](https://docs.google.com/document/d/1t5U7hzUrwu1gwMBBgCL-fmT_7e1stQy2aibnxbo2TSA/edit#heading=h.90wr5of5mehd)
* [Jenkins + TDD](https://docs.google.com/document/d/1chCqAPoFAEKe0cZ2LSFLdvRDwggrrjmqsmeWz38zy0M/edit#)
* [Config Management](https://docs.google.com/document/d/1IxWp-jPgZ1nOUWnVi7wOu8ooRJOvBY6Dg0t-aDliT38/edit#)
* [Docker](https://docs.google.com/document/d/1xTC7rRr9mlJsdCrhVqyKxUnOWTP28Pg_DNI3zy-nzOs/edit#) (bonus labs)
* [Monitoring](https://docs.google.com/document/d/1itE-BMDI0LMoluPVDhze3wKiviUslM1EvdePNlanTXc/edit#) (bonus labs)
* [Cloud / Kubernetes](https://docs.google.com/document/d/1pnT0xeOlQs-WhF6ODYJKJr1ld8X-6CzCYw3zK079f9g/edit#heading=h.tt8rumv7dnx2)
* [Wrapup](https://docs.google.com/document/d/1-ZRd2QT8bpxHW9oPlAh6OP-1GUrD5zIzwuZgWv1m0SI/edit#heading=h.hxiv65l5zsex)
* [Q&A](https://docs.google.com/document/d/1KvNxzZTtQsTqdcXD4z1b39goiRhARK7OQR5QTGNDa2E/edit#)

# Agenda

**Day 1 - Feb 19 Fri**

* Introduction to DevOps
  + Issues with traditional waterfall methodology
  + Tools
* Version control systems
  + Why
  + Different VCS
  + Centralized vs distributed systems
  + Working with git
  + Understanding git terminology
  + labs

**Day 2 - Feb 20 Sat**

* CI
  + Why CI
  + CI Tools
  + Jenkins
  + Lab : Setting up Jenkins
  + Lab : Building Java projects
  + Lab : Monitor repo and build
* Testing
  + Test driven development
  + Tools : Junit, Cucumber, Selenium, ..etc
  + Coverage

**Day 3 - Mar 5**

* Config Management
  + Puppet, chef, ansible, salt
  + Ansible -- playbooks, galaxy
* Docker
  + Virtualization
  + Docker images / containers / registries
  + Docker commands : pull, run,
  + Docker build : build, tag and Dockerfile
  + Publish docker : push

**Day 4 - March 6**

* Monitoring
* Devops on CLoud
* Kubernetes

**Day 5 - March 19**

* Review
* Projects
* Exam Prep