

# **Document History**



Add instructor notes here.

Date	Course Version No.	Software Version No.	Developer / SME	Change Record Remarks
29-Mar- 2017	1.0	Visual Studio 2015	Sangeetha Chandrasekaran	Reviewed by Vaishali Kasture

### Course Goal and Non Goals

- Course Goals
  - To understand DevOps Fundamentals
  - To understand DevOps with TFS and VSTS
- Course Non Goals
  - Learning Tools of DevOps



## Prerequisites

- ➤ Understanding of SDLC and SDLC Models
- ➤ Source Control usage
- ➤ Basic understanding of Cloud

### **Intended Audience**



Add instructor notes here.

- > This course is suitable for
  - System Administrators
  - Developers
  - IT Managers
  - IT Operations team members who want to learn more about DevOps with TFS.



## Day Wise Schedule

- > Day 1
  - Lesson 1: Introducing DevOps
  - · Lesson 2: Consolidation using Version Control
- ➤ Day 2
  - Lesson 3: Build and Release Management
  - Lesson 4: Unit Testing and DevOps
  - · Lesson 5: Deploy to Azure

### **Table of Contents**

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- Lesson 1: Introducing DevOps
  - Visual Studio
  - What is DevOps?
  - Agile Vs DevOps
  - DevOps Lifecycle
  - Tools for Adopting DevOps
  - DevOps Practices
  - Microsoft DevOps Solution
- ➤ Lesson 2:Consolidation using Version Control
  - Why Version Control?
  - Version Control in TFS
  - Team Projects & Team Project Collections
  - TFVC Overview
  - Git + TFS Overview
  - · Git or TFVC

#### **Table of Contents**

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- ➤ Lesson 3: Build and Release Management
  - Configuring Build Environment
  - Authoring Build Definition
  - Customizing the Build Process
  - Overview of Release Management
  - Release Management for VS 2015
- ➤ Lesson 4: Unit Testing and DevOps
  - Test with VSTS
  - Continuous Testing
  - Developer Tools and Unit Testing
- ➤ Lesson 5: Deploy to Azure
  - Continuous Integration
  - Continuous Deployment

### References

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- > Student Guide
  - PPT along with notes
- ➤ Lab Book
  - Lab Book consists of Walkthroughs to guide the participants throughout and <<To Do>> Exercises to test their knowledge and skills



## References

Add instructor notes here.

- https://www.visualstudio.com/en-us/docs/concepts
- https://www.visualstudio.com/team-services/
- > https://www.visualstudio.com/enus/docs/git/overview
- https://www.visualstudio.com/enus/docs/build/get-started/ci-cd-part-1
- http://searchwindevelopment.techtarget.com/de finition/Visual-Studio-Team-System
- https://www.devbridge.com/articles/continuousintegration-delivery-and-deployment-in-netprojects/



