DevOps with GitHub Learning Journey

Welcome to the DevOps with GitHub Learning journey. This learning journey will help you have a better understanding of the topics needed to become a successful DevOps practitioner with GitHub. It includes about 30 hours of content in a mix of Virtual Training Series (VTS) and Microsoft Learn learning paths.

Microsoft

Enable | DevOps with GitHub

Audience:
- DevOps Engineer
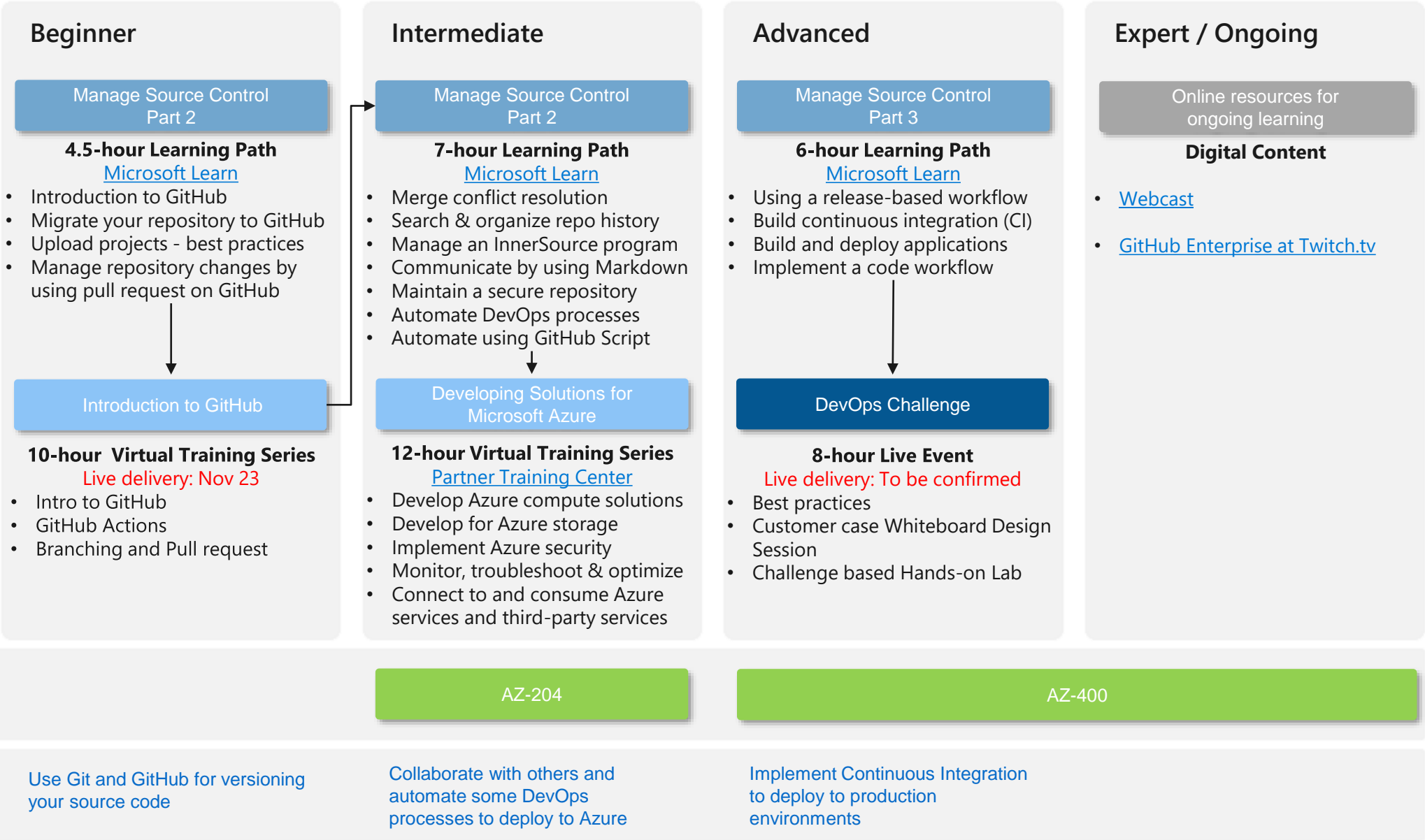- Developer
- Administrator
- Solution Architect

Beginner

Manage Source Control Part 2

4.5-hour Learning Path
[Microsoft Learn](#)
- Introduction to GitHub
- Migrate your repository to GitHub
- Upload projects - best practices
- Manage repository changes by using pull request on GitHub

Introduction to GitHub

10-hour Virtual Training Series
Live delivery: Nov 23
- Intro to GitHub
- GitHub Actions
- Branching and Pull request

Intermediate

Manage Source Control Part 2

7-hour Learning Path
[Microsoft Learn](#)
- Merge conflict resolution
- Search & organize repo history
- Manage an InnerSource program
- Communicate by using Markdown
- Maintain a secure repository
- Automate DevOps processes
- Automate using GitHub Script

Developing Solutions for Microsoft Azure

12-hour Virtual Training Series
[Partner Training Center](#)
- Develop Azure compute solutions
- Develop for Azure storage
- Implement Azure security
- Monitor, troubleshoot & optimize
- Connect to and consume Azure services and third-party services

Advanced

Manage Source Control Part 3

6-hour Learning Path
[Microsoft Learn](#)
- Using a release-based workflow
- Build continuous integration (CI)
- Build and deploy applications
- Implement a code workflow

DevOps Challenge

8-hour Live Event
Live delivery: To be confirmed
- Best practices
- Customer case Whiteboard Design Session
- Challenge based Hands-on Lab

Expert / Ongoing

Online resources for ongoing learning

Digital Content
- [Webcast](#)
- [GitHub Enterprise at Twitch.tv](#)

Legend

Community
Workshop
Virtual Training Series
Microsoft Learn

Certification reference

AZ-204	AZ-400

Job experience

Use Git and GitHub for versioning your source code

Collaborate with others and automate some DevOps processes to deploy to Azure

Implement Continuous Integration to deploy to production environments

Proposed plan

Week	Course	Length	Module	
1	Manage Source control - part 1	4.5	Introduction to GitHub	Link
			Migrate your repository by using GitHub	Link
			Upload your project by using GitHub best practices	Link
			Manage repository changes by using pull requests on GitHub	Link
2	Manage Source control - part 2	7	Settle competing commits by using merge conflict resolution on GitHub	Link
			Search and organize repository history by using GitHub	Link
			Manage an InnerSource program by using GitHub	Link
			Communicate effectively on GitHub by using Markdown	Link
			Maintain a secure repository by using GitHub best practices	Link
			Automate DevOps processes by using GitHub Apps	Link
			Automate GitHub by using GitHub Script	Link
	Developing Solutions for Microsoft Azure	12	Develop Azure Infrastructure as a Service compute solutions	Link
			Develop Azure Platform as a Service compute solutions	Link
			Develop for Azure storage	Link
			Implementing Azure security	Link
			Monitor, troubleshoot, and optimize solutions	Link
			Connect to and consume Azure and third-party services	Link
3	Manage Source control - part 3	5	Manage software delivery by using a release-based workflow on GitHub	Link
			Build continuous integration (CI) workflows by using GitHub Actions	Link
			Build and deploy applications to Azure by using GitHub Actions	Link
			Implement a code workflow in your build pipeline by using Git and GitHub	Link