

GH-200T00: Automate your workflow with GitHub Actions

Course Description

Learn how GitHub Actions enables you to automate your software development cycle. You'll learn how to plan automation of your software development life cycle with GitHub Actions workflows, use GitHub Actions to automatically build an application, and use GitHub Script to interact with the GitHub API.

Course Duration

1 day

Course Outline

1 - Automate development tasks by using GitHub Actions

- How does GitHub Actions automate development tasks?
- Identify the components of GitHub Actions
- Configure a GitHub Actions workflow
- Module assessment

2 - Build continuous integration workflows by using GitHub Actions

- How do I use GitHub Actions to create workflows for CI?
- Manage and debug workflows in GitHub Actions
- Customize your workflow with environment variables
- Cache, share and debug workflows
- Module assessment

3 - Build and deploy applications to Azure by using GitHub Actions

- How do I use GitHub Actions to deploy to Azure?
- Remove artifacts, create status badges, and configure environment protections
- Module assessment

4 - Automate GitHub by using GitHub Script

- What is GitHub Script?
- Module assessment

5 - Leverage GitHub Actions to publish to GitHub Packages

- What is GitHub Packages?
- Publish to GitHub Packages and GitHub Container Registry
- GitHub Packages for code packages
- Module assessment

6 - Create and publish custom GitHub actions

- Create a custom GitHub action
- Publish a custom GitHub action
- Module assessment

7 - Manage GitHub Actions in the enterprise

- Understanding GitHub enterprise models
- Manage actions and workflows
- Control access and usage of actions in your enterprise
- Managing and leveraging reusable components in GitHub Actions
- Manage runners

- Configure self-hosted runners for enterprise use
- Manage encrypted secrets
- Module assessment

Who Should Attend

This course is intended for students who want to use GitHub to help developers and DevOps engineers build and deploy applications quickly. Additionally, students will discover which GitHub Actions features are available for their enterprise instance and learn how to use them.