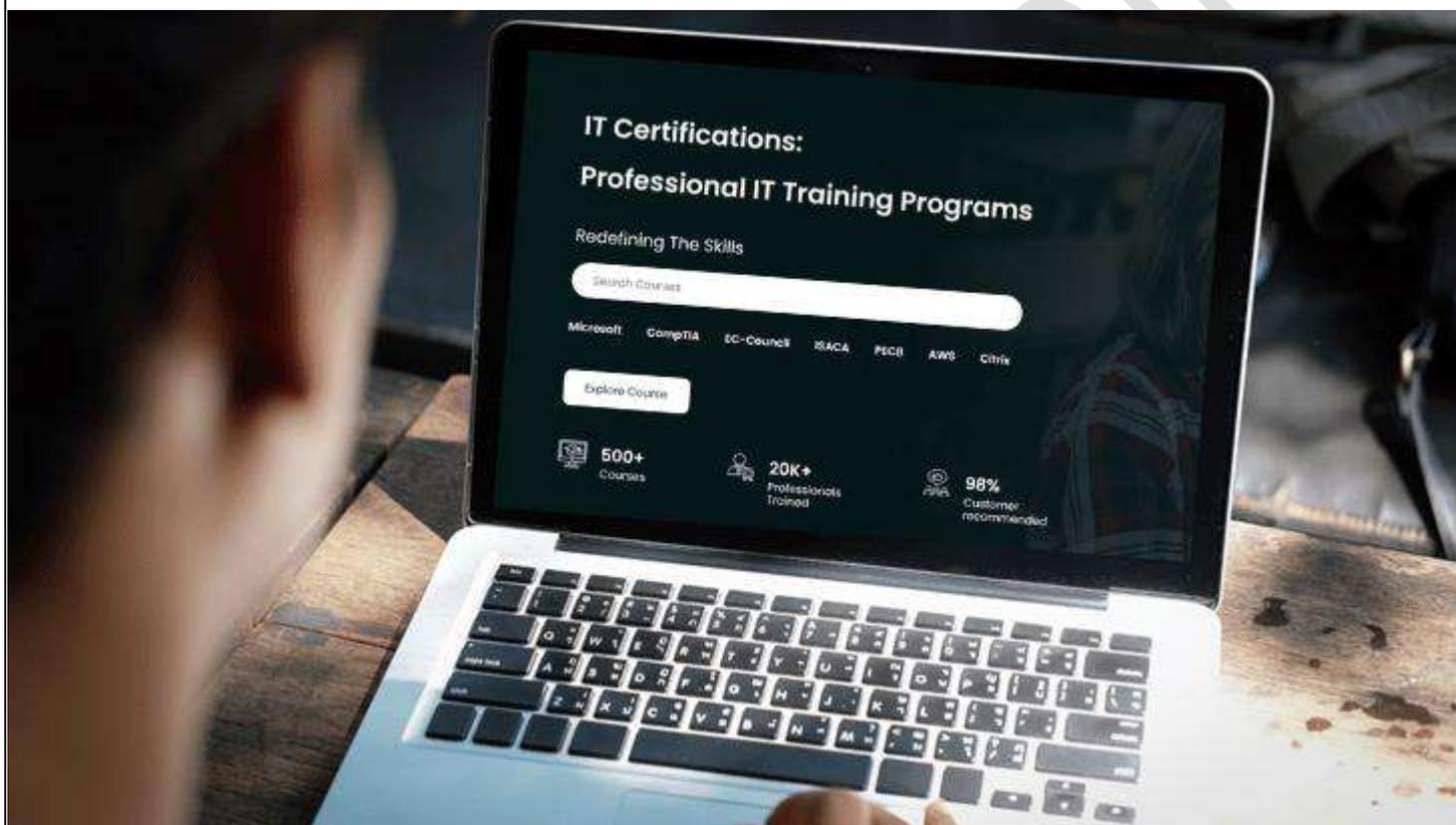# GH-200T00: Automate your workflow with GitHub Actions Training

DURATION: 1 DAY

Course Description

Automate Your Workflow with GitHub Actions – GH-200 Training empowers you to streamline your entire software development lifecycle. Learn to plan and implement GitHub Actions workflows, automatically build applications, and leverage GitHub Script to interact seamlessly with the GitHub API.

Note: Students have to bring their own Github license.

Who should attend this course?

- IT Administrator
- DevOps Engineer

What you will learn

- Understand the fundamentals of GitHub Actions and plan automation workflows.
- Create and trigger CI workflows to build and test applications using GitHub Actions.
- Deploy applications to Microsoft Azure using GitHub Actions and secure credentials.
- Use GitHub Script and Octokit to automate issues and project management tasks.
- Publish packages to GitHub Packages using authenticated and secure workflows.
- Create, manage, and publish custom actions while implementing enterprise-scale governance.

Curriculum

Module 1: Automate your workflow with GitHub Actions Part 1 of 2

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
- Exercise - Create and run a basic GitHub Actions workflow

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
- Exercise - Create the CI workflow on GitHub

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
- Exercise - Create a workflow that deploys a web app to Azure

Automate GitHub by using GitHub Script

- What is GitHub Script?
- Exercise - Using GitHub Script in GitHub Actions

Module 2: Automate your workflow with GitHub Actions Part 2 of 2

Leverage GitHub Actions to publish to GitHub Packages

- What is GitHub Packages?
- Publish to GitHub Packages and GitHub Container Registry
- Exercise - Publish to a GitHub Packages registry
- GitHub Packages for code packages

Create and publish custom GitHub actions

- Create a custom GitHub action
- Publish a custom GitHub action
- Exercise - Create a custom JavaScript GitHub action

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
- Exercise - Use a repository secret in a GitHub Actions workflow

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