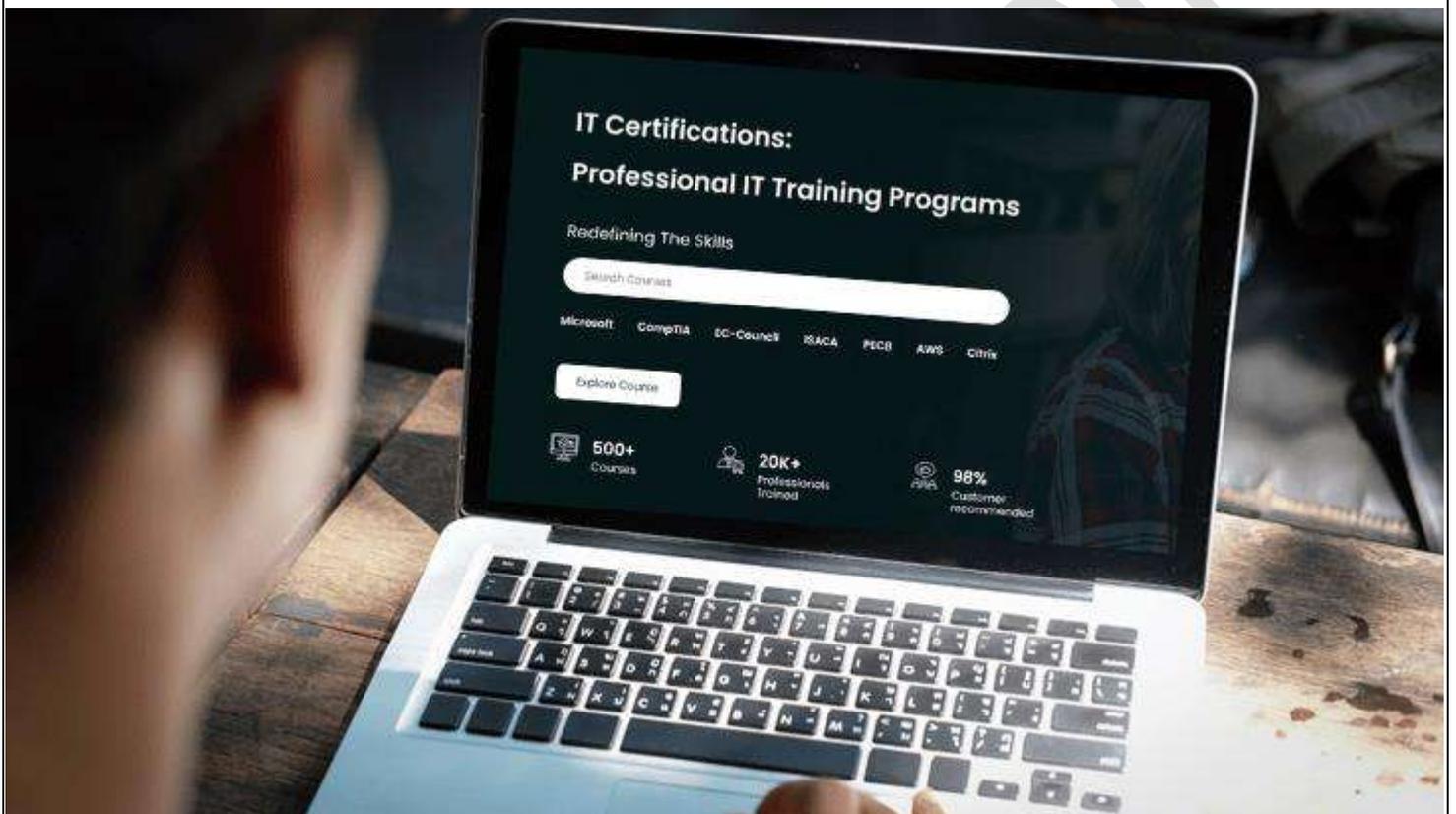




Redefining The Skills



GH-900T00: GitHub Foundations Training

DURATION: 2 DAYS

Course Overview

Note: The course duration will be updated from 1 day to 2 days, effective August 28th, 2025.

GH-900: GitHub Foundations provides a comprehensive introduction to Git and GitHub. Participants will learn version control, repository management, and collaborative coding practices. Explore GitHub Copilot for AI-powered code suggestions and streamline development with Codespaces. Enhance workflows using GitHub Projects and Markdown for effective communication. Gain hands-on experience through practical labs, contribute to open-source projects, and build secure repositories while confidently managing GitHub organizations.

Who Should Attend This Course?

- DevOps Engineer

What you will learn

- Understand Git and distributed version control.
- Manage repositories using GitHub.
- Utilize GitHub Copilot for AI-powered coding.
- Collaborate using GitHub Projects and Codespaces.
- Contribute to open-source projects.
- Ensure repository security with GitHub best practices.
- Administer GitHub organizations and manage user access.

Curriculum

Module 1: GitHub Foundations Part 1 of 2

Introduction to Git

- What is version control?
- Exercise - Try out Git
- Basic Git commands

Introduction to GitHub

- What is GitHub?
- Components of the GitHub flow
- GitHub is a collaborative platform
- GitHub platform management
- Exercise - A guided tour of GitHub

Introduction to GitHub's products

- GitHub accounts and plans
- GitHub Mobile and GitHub Desktop
- GitHub billing
- License Usage Stats
- License Usage Stats in Machine and Peripheral Devices
- Metered Usage Reports

Configure code scanning on GitHub

- What is code scanning?
- Enable code scanning with third party tools
- Configure code scanning
- Configure code scanning exercise

Introduction to GitHub Copilot

- GitHub Copilot, your AI pair programmer
- Interact with Copilot
- Set up, configure, and troubleshoot GitHub Copilot
- Exercise - Develop with AI-powered code suggestions by using GitHub Copilot and VS Code

Code with GitHub Codespaces

- The Codespace lifecycle
- Personalize your Codespace
- Codespaces versus GitHub.dev editor
- Exercise - Code with Codespaces and Visual Studio Code

Manage your work with GitHub Projects

- Projects versus Projects Classic
- How to create a project
- How to organize your project
- How to organize and automate your project
- Insight and automation with projects

Communicate effectively on GitHub using Markdown

- What is Markdown?
- Exercise - Communicate using Markdown

Module 2: GitHub Foundations Part 2 of 2

Contribute to an open-source project on GitHub

- Identify where you can help
- Contribute to an open-source repository
- Exercise - Create your first pull request

Manage an InnerSource program by using GitHub

- How to manage a successful InnerSource program
- Exercise - InnerSource fundamentals

Maintain a secure repository by using GitHub best practices

- How to maintain a secure GitHub repository
- Automated security
- Exercise - Secure your repository's supply chain

Introduction to GitHub administration

- What is GitHub administration?
- How does GitHub authentication work?
- How does GitHub organization and permissions work?
- Managing enterprise access, permissions, and governance

Authenticate and authorize user identities on GitHub

- User identity and access management
- User authentication
- User authorization
- Team synchronization

Manage repository changes by using pull requests on GitHub

- What are pull requests?
- Exercise - Reviewing pull requests

Search and organize repository history by using GitHub

- How to search and organize repository history by using GitHub
- Exercise - Connect the dots in a GitHub repository

Using GitHub Copilot with Python

- What is GitHub Copilot?
- Exercise - Set up GitHub Copilot to work with Visual Studio Code
- Use GitHub Copilot with Python
- Exercise - Update a Python web API with GitHub Copilot

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