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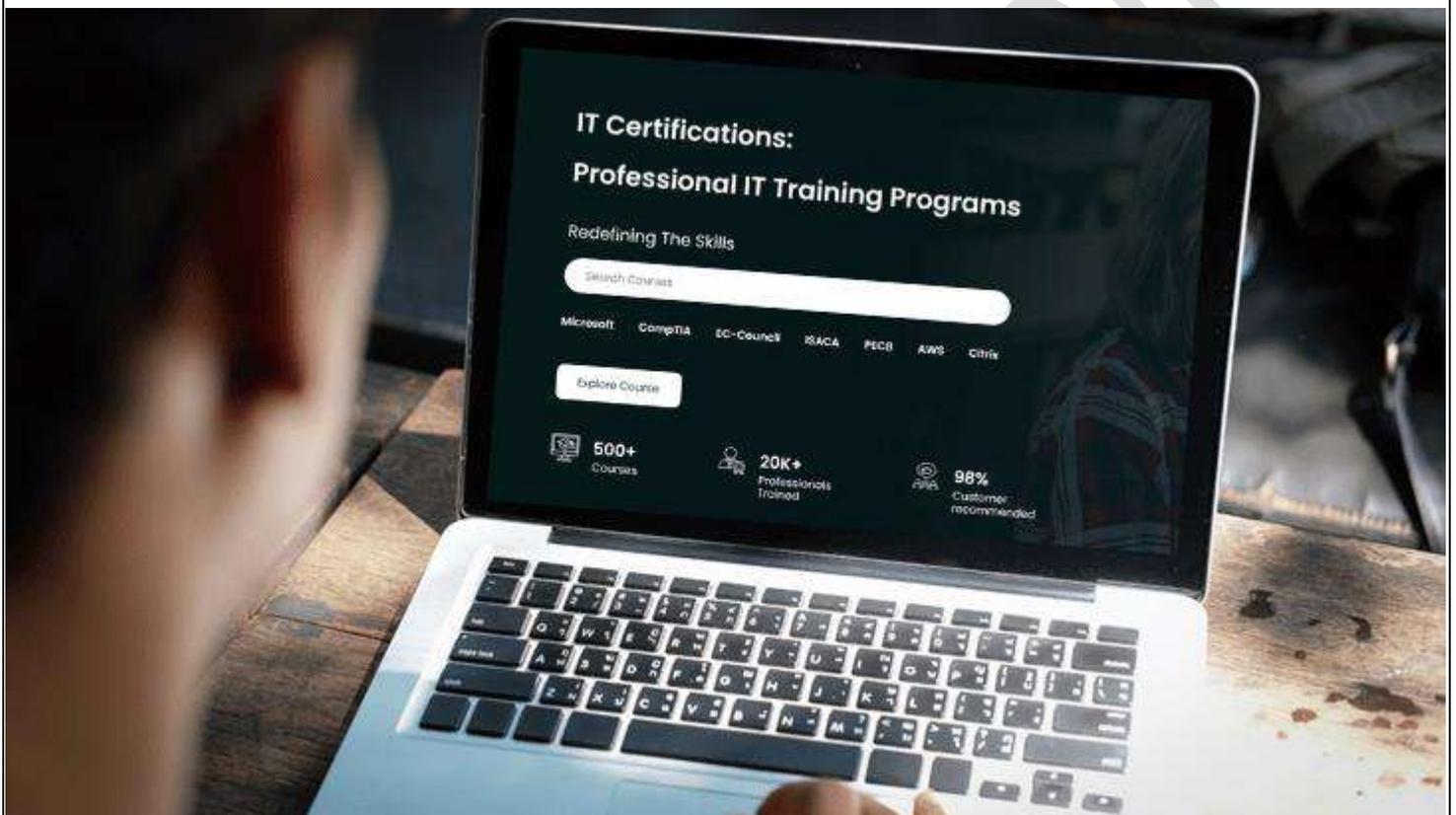
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AZ-2007: Accelerate app development by using GitHub Copilot Training

DURATION: 1 DAY

Course Description

This training empowers App Development by using GitHub Copilot. This results in harnessing the power of GitHub Copilot (An AI-powered code generational tool). By completing this course, professionals will acquire proficiency in the coding process, generating code, and improving documentation.

Who should attend this course?

- Software Developer

What you will learn

- Understand the features and advantages of GitHub Copilot.
- Install and configure GitHub Copilot extensions for Visual Studio Code.
- Generate code and project documentation using GitHub Copilot tools.
- Develop code features and manage suggestions using GitHub Copilot.
- Create unit tests for various scenarios using GitHub Copilot.
- Implement AI-driven code improvements for quality, performance, and security.
- Complete a guided project utilizing GitHub Copilot for development and refactoring.

Prerequisites

- Active GitHub Copilot subscription required (personal or organizational account).
- One year or more of code development experience.
- Experience with C# development in Visual Studio Code using the C# Dev Kit extension.

Curriculum

Module 1: Get started with GitHub Copilot

- Examine AI tools from GitHub, OpenAI, and Microsoft
- Compare GitHub Copilot plans
- Review GitHub Copilot features
- Examine GitHub Copilot's setup process
- Configure GitHub Copilot settings in Visual Studio Code
- Manage GitHub Copilot policies, features, and extensions for individuals
- Examine GitHub Copilot's code completion features
- Examine GitHub Copilot's AI assistance features
- Examine GitHub Copilot Chat view features
- Examine GitHub Copilot inline chat, smart actions, and quick chat
- Exercise - Examine GitHub Copilot settings and user interface features

Module 2: Generate documentation using GitHub Copilot tools

- Review GitHub Copilot's "explain" and "document" features
- Examine GitHub Copilot prompts and keywords
- Analyze and explain code using GitHub Copilot
- Generate project documentation using GitHub Copilot
- Generate inline code documentation using GitHub Copilot
- Exercise - Analyze and document code using GitHub Copilot

Module 3: Develop code features using GitHub Copilot tools

- Examine the code development features of GitHub Copilot
- Examine GitHub Copilot best practices
- Generate code using GitHub Copilot code completion suggestions
- Generate code using GitHub Copilot Chat
- Exercise - Develop new code features using GitHub Copilot

Module 4: Develop unit tests using GitHub Copilot tools

- Examine the unit testing tools and environment
- Create unit tests using the Generate Tests smart action
- Create unit tests using Inline Chat
- Create unit tests using Chat view modes
- Exercise - Develop unit tests using GitHub Copilot

Module 5: Implement code improvements using GitHub Copilot tools

- Review GitHub Copilot's code improvement features
- Examine GitHub Copilot's quick fix options
- Review code refactoring scenarios and GitHub Copilot best practices
- Refactor code using GitHub Copilot Inline Chat
- Refactor code using GitHub Copilot Chat modes
- Examine the GitHub Copilot code review features
- Exercise - Refactor existing code using GitHub Copilot

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