

PROFESSIONAL COURSE OUTLINE

Microsoft

GitHub Copilot

GH-300

This course explores the use of AI in the context of GitHub Copilot, a generative AI tool for developers. It equips users with the knowledge and skills to use Copilot effectively while mitigating potential ethical and operational risks associated with AI usage.

Software Dev

Intermediate

Github

PROGRAM CODE

GH-300

DELIVERY

Virtual, On-site, or Hybrid

DURATION

1 day

CERTIFICATION

GitHub Copilot

AUDIENCE PROFILE

Who This Program Is For

- AI
Developers and Engineers: Professionals involved in creating and deploying AI systems who need to understand the ethical implications and governance frameworks.
- Data
Scientists and Analysts: Individuals who work with data and AI models, focusing on ensuring transparency, fairness, and accountability in their work.
- Business
Leaders and Managers: Decision-makers who oversee AI projects and need to implement responsible AI practices within their organizations.
- Policy
Makers and Regulators: Those responsible for creating policies and regulations around AI usage, ensuring that AI systems are developed and used ethically and safely.

PROGRAM SUMMARY

What This Course Covers

Candidates for this certification should possess expertise in using GitHub Copilot to improve software development productivity, quality, and security.



Plan the next session

We can tune this outline around your delivery goals and team mix.

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Page 1 of 2

TAILORED DELIVERY

Adapt the program around your team.

This outline can be adapted for virtual, on-site, or hybrid delivery, with emphasis adjusted for your team's platform priorities, role mix, and implementation goals.

Enterprise-ready delivery format

VNode ITeS can align labs, examples, delivery pace, and assessment checkpoints to the required audience profile while preserving the official program sequence where applicable.

COMPLETE MODULE SEQUENCE

Module Flow and Topic Coverage

The structure below presents the current delivery flow for this program, including the associated topics covered under each module.

1

MODULE 1

GitHub Copilot Fundamentals Part 1 of 2

Empower individual developers and businesses to enhance their productivity and foster innovation through a comprehensive exploration of the fundamental concepts of GitHub Copilot. Additionally, gain valuable insights on how to initiate the implementation of GitHub Copilot within your organization, enabling you to kickstart your own transformative journey. This learning path is split into two and this is part one of two.

- Responsible AI with GitHub Copilot
- Introduction to GitHub Copilot
- Introduction to prompt engineering with GitHub Copilot
- Introduction to Copilot Spaces
- Using advanced GitHub Copilot features
- GitHub Copilot Across Environments: IDE, Chat, GitHub.com, and Command Line Techniques
- Management and customization considerations with GitHub Copilot
- Developer use cases for AI with GitHub Copilot
- Develop unit tests using GitHub Copilot tools

2

MODULE 2

GitHub Copilot Fundamentals Part 2 of 2

Empower individual developers and businesses to enhance their productivity and foster innovation through a comprehensive exploration of the fundamental concepts of GitHub Copilot. Additionally, gain valuable insights on how to initiate the implementation of GitHub Copilot within your organization, enabling you to kickstart your own transformative journey.

- Building applications with GitHub Copilot agent mode
- Accelerate development with GitHub Copilot Cloud Agent
- Introduction to MCP Server
- Leveling up code reviews and pull requests with GitHub Copilot
- Using GitHub Copilot with JavaScript
- Using GitHub Copilot with Python

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Page 2 of 2