

SQL SCHOOL

GH-300

**GITHUB COPILOT
CERTIFICATION TRAINING**

LIVE ONLINE | INSTRUCTOR-LED | HANDS-ON

Learn Copilot. Build smarter. Prepare with confidence.

About the training

A practical, certification-aligned learning path for developers and IT professionals who want to use GitHub Copilot responsibly to improve coding, collaboration, testing and development workflows. The curriculum follows the supplied GH-300 topic outline and the official Microsoft Learn study guide (skills measured as of 7 August 2026).

Who should attend

Developers, software engineers, DevOps professionals, technical leads, engineering managers and IT learners with basic GitHub familiarity and experience in at least one programming language.

What you will learn

- Responsible AI and trustworthy Copilot usage
- IDE, chat, CLI, agent mode, MCP and collaboration features
- Prompt engineering and effective context crafting
- Copilot data flow, privacy, content exclusions and enterprise policies
- AI-assisted coding, testing, refactoring and security reviews
- Structured GH-300 exam preparation and mock assessments

MODULE 01 | Responsible AI and Copilot Essentials

Structured curriculum with a practical activity in every chapter.

CHAPTER 01 | Introduction to GitHub Copilot

Understand the GH-300 exam, Copilot value proposition, prerequisites, supported development workflows and GitHub fundamentals.

Practical: Explore Copilot in a sample repository.

CHAPTER 02 | Generative AI and Responsible AI Foundations

Learn generative AI, model limitations, hallucinations, bias, intellectual property risks, security implications and mitigation approaches.

Practical: Evaluate unsafe or inaccurate AI suggestions.

CHAPTER 03 | Validating AI-Generated Outputs

Review correctness, maintainability, licensing, test coverage and human accountability for Copilot-assisted code.

Practical: Validate and improve a generated function.

CHAPTER 04 | GitHub Copilot Setup and IDE Integration

Configure Copilot in supported IDEs; explore completion, inline suggestions, chat, editor settings and day-to-day coding flows.

Practical: Enable Copilot and complete an IDE coding exercise.

CHAPTER 05 | GitHub Copilot Chat and Context

Practice chat commands, conversation history, context selection, limitations, feedback and reusable prompt files.

Practical: Explain unfamiliar code with targeted chat prompts.

MODULE 02 | Features, Agents and Administration

Structured curriculum with a practical activity in every chapter.

CHAPTER 06 | GitHub Copilot CLI

Understand installation, interactive sessions, available commands, shell assistance, script generation and safe file operations.

Practical: Create and review a CLI-generated helper script.

CHAPTER 07 | Copilot Edits and Agent Mode

Apply multi-file changes, agent workflows, task delegation, agent sessions and sub-agents while managing context and review checkpoints.

Practical: Refactor a small application across files.

CHAPTER 08 | MCP and Extended Copilot Workflows

Introduce Model Context Protocol (MCP), connected tools and controlled extensions to agentic development workflows.

Practical: Map a sample tool-enabled workflow and permissions.

CHAPTER 09 | Copilot in GitHub Collaboration

Use code review assistance, pull request summaries, custom review instructions, Spaces and Spark capabilities.

Practical: Draft a PR summary and review checklist.

CHAPTER 10 | Organization Administration and Policies

Review organization-wide policies, feature availability, code review controls, audit log events and subscription management with REST APIs.

Practical: Design an example enterprise Copilot policy.

MODULE 03 | Architecture, Prompts and Productivity

Structured curriculum with a practical activity in every chapter.

CHAPTER 11 | Copilot Data Flow and Architecture

Explain request context, prompt building, data flow and sharing, proxy filtering, post-processing and code suggestion lifecycle.

Practical: Diagram the lifecycle of an inline suggestion.

CHAPTER 12 | Understanding Context and Prompt Engineering

Structure prompts with goal, constraints, examples and relevant files; compare zero-shot, few-shot and iterative prompting.

Practical: Improve weak prompts through three iterations.

CHAPTER 13 | Advanced Context Crafting and Prompt Quality

Explore context selection, prompt process flow, chat history, reusable prompt patterns and performance-oriented prompt improvements.

Practical: Prepare a reusable prompt for a repository task.

CHAPTER 14 | AI-Assisted Coding and Refactoring

Apply Copilot to code generation, documentation, migration, legacy code modernization, sample-data generation and accelerated learning.

Practical: Modernize a legacy routine with review.

CHAPTER 15 | AI-Assisted Testing and Debugging

Create unit and integration tests, assertions, edge-case coverage, debugging hypotheses and reproducible test scenarios.

Practical: Generate tests and assess missing edge cases.

MODULE 04 | Safeguards, Project and Certification

Structured curriculum with a practical activity in every chapter.

CHAPTER 16 | Code Security and Performance with Copilot

Assess suggested security changes and optimizations; check weaknesses, false confidence and the need for independent verification.

Practical: Review and harden an insecure code example.

CHAPTER 17 | Privacy, Content Exclusions and Safeguards

Configure privacy and editor settings; understand content exclusions, public-code match filtering, output ownership and troubleshooting.

Practical: Plan safe exclusions for a sample repository.

CHAPTER 18 | End-to-End GitHub Copilot Practical Project

Combine IDE assistance, prompt engineering, CLI, agent mode, review, testing, security and documentation in one workflow.

Practical: Complete and present a mini-project with review evidence.

CHAPTER 19 | GH-300 Exam Domain Review and Practice Questions

Review all six assessed domains and relative weightings; practice case-based questions on features, responsibility, architecture and safeguards.

Practical: Complete a domain-wise practice assessment and gap analysis.

CHAPTER 20 | GH-300 Mock Exam and Certification Readiness

Take a timed mock assessment; review explanations, revision priorities, common traps, exam booking steps and final preparation checklist.

Practical: Complete final mock exam and personalized revision plan.

GH-300 certification coverage

Officially assessed topic areas; weightings shown in the supplied outline and August 2026 Microsoft Learn study guide.

EXAM DOMAIN	WEIGHT
Use GitHub Copilot responsibly	15-20%
Use GitHub Copilot features	25-30%
Understand GitHub Copilot data and architecture	10-15%
Apply prompt engineering and context crafting	10-15%
Improve developer productivity with GitHub Copilot	10-15%
Configure privacy, content exclusions, and safeguards	10-15%

Your certification preparation path

- Knowledge checks and practical exercises throughout the course
- Dedicated domain review in Chapter 19
- Timed mock assessment, explanations and revision plan in Chapter 20
- Guidance to the official registration and exam information pages

Official reference

[Microsoft Learn - GH-300 Study Guide](#)

Note: Course content is a SQL School training proposal. Feature availability and exam objectives can change. Enrollment does not include an official exam voucher unless separately confirmed. Certification is awarded by the exam provider after passing; SQL School does not guarantee a pass.

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