



# MFE-IT

Reference: GH-300

## GitHub Copilot GH-300 Training Course

Master the AI Assistant to Accelerate Your Development

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*Duration: 1 Day | Hours: 6 h*

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*Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice*

## DESCRIPTION

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GitHub Copilot is transforming how developers write code. This training course teaches you to use this AI assistant effectively in your daily development workflow: code generation, documentation, debugging, unit testing and pair programming with AI.

You will cover all the features of GitHub Copilot and learn best practices for maximising your productivity. The programme follows the official GitHub GH-300 certification curriculum, with hands-on exercises across multiple languages.

## LEARNING OBJECTIVES

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By the end of this training course, participants will be able to:

- Configure and use GitHub Copilot in VS Code and other IDEs
- Generate quality code with AI assistance
- Write effective prompts to guide Copilot
- Use Copilot for documentation and code review
- Generate and run unit tests with Copilot
- Understand Copilot's limitations and security best practices

## PREREQUISITES

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- Experience in at least one programming language (JavaScript, Python, C#, etc.)
- Familiarity with VS Code or another IDE
- Basic knowledge of Git

*Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.*

## TARGET AUDIENCE

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- Software developers and engineers
- Full-stack and back-end developers
- Technical leads and senior developers
- Any developer wishing to boost their productivity with AI

## DETAILED PROGRAMME

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The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

### Module 1 – Introduction to GitHub Copilot

- Overview of the AI assistant: concepts, uses, limitations
- Key features and use cases in the development workflow
- Copilot Individual, Business and Enterprise editions

### Module 2 – Installation and Configuration

- Installing Copilot in VS Code or another IDE
- Managing preferences, extensions and licences
- Personal and organisation-level settings

### Module 3 – Core Interaction Techniques

- Interaction methods: autocompletion, contextual suggestions
- Using inline and chat modes effectively
- Working with Copilot Chat in the IDE

### Module 4 – Prompt Engineering for Code

- Designing effective, structured prompts to guide Copilot
- Optimising code generation contexts (open files, comments, examples)
- Patterns for refactoring, bug-fixing and feature drafting

### Module 5 – Testing and Code Quality

- Generating unit tests with Copilot
- Code refactoring and correction suggestions
- Documentation generation and code review with AI

### Module 6 – Collaboration and Team Workflows

- Producing consistent collaborative code with Copilot
- Reviewing suggestions and human validation
- Integration with pull requests and code review

## Module 7 – Limits, Security and Practical Workshop

- Current limitations of Copilot and managing incorrect suggestions
- Security and responsible AI considerations
- Hands-on workshop on a real project: features, tests, refactoring

## TEACHING METHODS

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### Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

### MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

### Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

### Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

### Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: [contact@mfe-it.com](mailto:contact@mfe-it.com).

## PRACTICAL INFORMATION

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### Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

## **Certification and Validation**

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

## **Benefits for Participants**

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

## **Benefits for the Organisation**

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts