# Microsoft GitHub Essentials Training

Duration: **1 Day**

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**Microsoft GitHub Essentials** is a one-day introductory course designed for professionals who want to build a strong foundation in Git and GitHub. The programme introduces the core principles of version control while providing practical experience with GitHub's collaborative development features used in modern software engineering.

Throughout the course, participants will learn how to create repositories, perform commits, manage branches, work with pull requests, and resolve merge conflicts using industry-standard development workflows. Hands-on exercises allow learners to gain confidence in using GitHub for both individual and collaborative software projects.

By the end of the programme, participants will have the practical skills required to navigate the GitHub platform, manage source code effectively, and contribute to team-based development using GitHub best practices.

## Prerequisites

No previous experience with Git or GitHub is required.

Participants are recommended to have:

- Basic computer literacy.
- Familiarity with command-line operations (helpful but not mandatory).
- A free **GitHub** account for use during the practical exercises.

## What You Will Learn

Upon successful completion of this course, participants will be able to:

- Create and configure GitHub repositories.
- Perform essential Git operations including Commit, Push, and Pull.
- Create, switch, and merge branches using Git workflows.
- Create and manage Pull Requests to support collaborative software development.
- Identify and resolve common merge conflicts using Git tools.
- Navigate the GitHub interface and make effective use of its core features.

## Training Outline

### Session 1 - Introduction to Git

- Understanding the fundamentals of version control
- Core concepts of Git
- Installing and configuring Git
- Essential Git commands

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- The role of version control in modern software development

### Session 2 - Branching and Merging

- Benefits of working with branches
- Creating new branches
- Switching between branches
- Merging branches into the main codebase
- Establishing effective development workflows

### Session 3 - Introduction to GitHub

- Overview of the GitHub platform
- Creating a GitHub account
- Navigating the GitHub interface
- Repository management fundamentals
- Supporting collaborative software development

### Session 4 - Creating and Configuring Repositories

- Creating new repositories
- Cloning repositories to a local environment
- Setting up project structures
- Configuring repositories for development

### Session 5 - Connecting Visual Studio Code to GitHub

- Using an IDE to improve development productivity
- Integrating Visual Studio Code with GitHub
- Authenticating GitHub accounts
- Managing repositories directly from the development environment

### Session 6 - Working with Pull Requests

- Understanding Pull Requests
- Code review workflows
- Supporting team collaboration
- Creating and managing Pull Requests

### Session 7 - Managing Merge Conflicts

- Common causes of merge conflicts
- Typical conflict scenarios
- Resolving conflicts using Git tools
- Best practices for safe code merging

### Session 8 - Course Review and Q&A

- Reviewing the key concepts covered throughout the course
- Discussing recommended best practices
- Instructor-led questions and answers
- Additional learning resources and next steps

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