



## Git Essentials

Tecnologias de Informação - Desenvolvimento / Programação

- **Nível:**
  - **Duração:** 12h
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### Sobre o curso

The course shows how to use Git, the popular open-source version control software, to manage changes to source code and text files.

Discover how to track changes to files in a repository, review previous edits, and compare versions of a file; create branches to test new ideas without altering the main project; and merge those changes into the project if they work out. The course begins by demonstrating version control in a single-user, standalone context, before exploring how remote repositories allow users to collaborate on projects effectively.

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### Destinatários

This course is intended for professionals who need to deepen their knowledge of version control using Git.

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### Objetivos

- How to control versions
  - Git Installation
  - Managing repository
  - Git architecture
  - Managing versions
  - Merging and conflicts
  - Hosted repositories and remote branches
  - Effective collaboration workflow
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### Programa

- Exploring the history of version control
- Installing Git on Mac, Windows, and Linux
- Initializing a repository
- Writing useful commit messages

- Understanding the Git three-tree architecture
- Tracking when files are added, edited, deleted, or moved
- Viewing change sets and comparing versions
- Undoing changes and rolling back to previous versions
- Ignoring changes to select files
- Creating and working with code branches
- Merging branches and resolving merge conflicts
- Stashing changes for later
- Working with hosted repositories and remote branches
- Developing an effective collaboration workflow