



Let's Reach For Excellence!

TAN DUC INFORMATION TECHNOLOGY SCHOOL JSC

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Pro Git

Duration: 2 days



COURSE OUTLINE

Module 1: Getting Started

- About Version Control
- A Short History of Git
- What is Git?
- The Command Line
- Installing Git
- First-Time Git Setup
- Getting Help
- Summary

Module 2: Git Basics

- Getting a Git Repository
- Recording Changes to the Repository
- Viewing the Commit History
- Undoing Things
- Working with Remotes
- Tagging
- Git Aliases
- Summary

Module 3: Git Branching

- Branches in a Nutshell
- Basic Branching and Merging
- Branch Management
- Branching Workflows
- Remote Branches
- Rebasing
- Summary

Module 4: Git on the Server

- The Protocols
- Getting Git on a Server
- Generating Your SSH Public Key
- Setting Up the Server
- Git Daemon
- Smart HTTP
- GitWeb
- GitLab
- Third Party Hosted Options
- Summary

Module 5: Distributed Git

- Distributed Workflows
- Contributing to a Project

- Maintaining a Project
- Summary

Module 6: GitHub

- Account Setup and Configuration
- Contributing to a Project
- Maintaining a Project
- Managing an organization
- Scripting GitHub
- Summary

Module 7: Git Tools

- Revision Selection
- Interactive Staging
- Stashing and Cleaning
- Signing Your Work
- Searching
- Rewriting History
- Reset Demystified
- Advanced Merging
- Rerere
- Debugging with Git
- Submodules
- Bundling
- Replace
- Credential Storage
- Summary

Module 8: Customizing Git

- Git Configuration
- Git Attributes
- Git Hooks
- An Example Git-Enforced Policy
- Summary

Module 9: Git and Other Systems

- Git as a Client
- Migrating to Git
- Summary

Module 10: Git Internals

- Plumbing and Porcelain
- Git Objects
- Git References
- Packfiles
- The Refspec

- Transfer Protocols
- Maintenance and Data Recovery
- Environment Variables
- Summary