Introduction to GitHub for Developers (TTDV7551)

Category: Software Development & Programming | **Vendor:** Trivera Tech

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Introduction to GitHub for Developers®is a fast-paced hands-on course that provides students with a solid overview of Git and GitHub the web-based version control repository hosting service. While the examples in this class are related to computer code, GitHub can be used for other content. It offers the complete distributed version control and source code management (SCM) functionality of Git as well as adding its own features. It provides access control and several collaboration features such as bug tracking, feature requests, task management, and wikis for every project.

About This Course

Introduction to GitHub for Developers is a fast-paced hands-on course that provides students with a solid overview of Git and GitHub the web-based version control repository hosting service. While the examples in this class are related to computer code, GitHub can be used for other content. It offers the complete distributed version control and source code management (SCM) functionality of Git as well as adding its own features. It provides access control and several collaboration features such as bug tracking, feature requests, task management, and wikis for every project.

Who Should Attend

This course is geared for software developers, project managers, and students interested in version control, collaborative coding practices, and source code management.

Prerequisites & Entry Requirements

General Prerequisites:

This class assumes some prior experience with Git, plus basic coding or programming knowledge.

Learning Outcomes

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

This course is approximately 50% hands-on, combining expert lecture, real-world demonstrations and group discussions with machine-based practical labs and exercises. Working in a hands-on learning environment led by our expert team, students will explore:

-Getting Started with Collaboration

-Understanding the GitHub Flow

-Branching with Git

-Local Git Configuration

-Working Locally with Git

-Collaborating on Your Code

-Merging Pull Requests

-Viewing Local Project History

-Streaming Your Workflow with Aliases

-Workflow Review Project: GitHub Games

-Resolving Merge Conflicts

-Working with Multiple Conflicts

-Searching for Events in Your Code

-Reverting Commits

-Helpful Git Commands

-Viewing Local Changes

-Creating a New Local Repository

-Fixing Commit Mistakes

-Rewriting History with Git Reset

-Merge Strategies: Rebase

-Understanding GitHub Actions

-Working with Workflows

-Managing Jobs and Steps within a Workflow

-Dealing with complex Workflows

Detailed Course Outline

Getting Started with Collaboration

What is GitHub

The GitHub Ecosystem

What is Git

Exploring a GitHub Repository

Using GitHub Issues

Activity: Creating A GitHub Issue

Using Markdown

Understanding the GitHub Flow

The Essential GitHub Workflow

Branching with Git

Branching Defined

Activity: Creating a Branch with GitHub

Introduction

Class Diagram

Interaction Diagrams

Sequence Diagrams

Communication Diagrams

State Machine Diagrams

Activity Diagram

Implementation Diagrams

Local Git Configuration

Checking your Git version

Git Configuration Levels

Viewing your configurations

Configuring your username and email

Configuring autocrif

Working Locally with Git

Creating a Local copy of the repo

Our favorite Git command: git status

Using Branches locally

Switching branches

Activity: Creating a New File

The Two Stage Commit

Collaborating on Your Code

Pushing your changes to GitHub

Activity: Creating a Pull Request

Exploring a Pull Request

Activity: Code Review

Merging Pull Requests

Merge Explained

Merging Your Pull Request

Updating Your Local Repository

Cleaning Up the Unneeded Branches

Viewing Local Project History

Using Git Log

Streaming Your Workflow with Aliases

Creating Custom Aliases

Workflow Review Project: GitHub Games

User Accounts vs. Organization Accounts

Introduction to GitHub Pages

What is a Fork

Creating a Fork

Workflow Review: Updating the README.md

Resolving Merge Conflicts

Local Merge Conflicts

Working with Multiple Conflicts

Remote Merge Conflicts

Exploring

Searching for Events in Your Code

What is Git bisect

Finding the bug in your project

Reverting Commits

How Commits are made

Safe operations

Reverting Commits

Helpful Git Commands

Moving and Renaming Files with Git

Staging Hunks of Changes

Viewing Local Changes

Comparing changes with the Repository

Creating a New Local Repository

Initializing a new local repository

Fixing Commit Mistakes

Revising your last commit

Rewriting History with Git Reset

Understanding reset

Reset Modes

Reset Soft

Reset Mixed

Reset Hard

Does gone really mean gone

Getting it Back

You just want that one commit

Oops, I didn't mean to reset

Merge Strategies: Rebase

About Git rebase

Understanding Git Merge Strategies

Creating a Linear History

GitHub Actions

Workflows

Events

Jobs

Steps

Runners

Complex Workflows

Adding scripts to your workflow

Using variables

Sharing data between jobs

Working with dependencies

Working with Services

Additional Course Details

Nexus Humans Introduction to GitHub for Developers (TTDV7551) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Introduction to GitHub for Developers (TTDV7551) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Introduction to GitHub for Developers (TTDV7551)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Introduction to GitHub for Developers (TTDV7551) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to GitHub for Developers (TTDV7551) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to GitHub for Developers (TTDV7551)?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to GitHub for Developers (TTDV7551). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: GitHub

Q: Why choose Nexus Human for Introduction to GitHub for Developers (TTDV7551)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to GitHub for Developers (TTDV7551) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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