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□ START HERE - Your Complete Learning Journey

□ A Gift From Your Father

Dear Mauricio,

This course is a special gift created just for you by your father, Sergio Muñoz de Alba Medrano.

Watching you excel at PE Club in Brussels fills me with immense pride. Your work in Private Equity demands the best tools and skills, and this course will give you a competitive edge that few analysts have.

I've built this comprehensive program to help you master: - Modern development tools (VS Code, Git, GitHub) - AI-powered coding (GitHub Copilot) - Professional Python for financial modeling - Advanced valuation techniques for PE/IB work

You're already doing amazing work at PE Club. Now, let's take your technical skills to the next level.

With all my love and pride,

Papá

Welcome to Advanced Financial Modeling with VS Code!

This course teaches you three valuable skills at once: 1. VS Code mastery - Modern development environment 2. Python for finance - Programming for financial analysis 3. AI-powered workflow - GitHub Copilot & version control

Built specifically for: PE professionals who want to automate models and work 10x faster

☐ What You'll Learn

VS Code Skills

- Navigate the interface like a pro
- Use keyboard shortcuts for speed
- Debug and run code efficiently
- Work with multiple files and terminals
- Customize your workspace

GitHub & Copilot

- Version control your models (never lose work!)
- AI code assistant for faster development
- Collaborate and share models
- Build a professional portfolio

☐ IMPORTANT: Copilot & GitHub Subscriptions

To get the FULL power of this course, you'll need:

1. GitHub Copilot Subscription (\$10/month) - Essential for AI-assisted coding throughout this course - Without it, you'll miss 70% of the productivity gains - Worth every penny - writes code 10x faster - Sign up: <https://github.com/features/copilot> - Your father's recommendation: This is a career investment, not an expense

2. GitHub Pro (Optional, \$4/month) - Unlimited private repositories - Advanced collaboration features - Professional portfolio with insights - Good for PE work - keep proprietary models private

Total Investment: ~\$10-14/month for tools that will save you 10+ hours/week

☐ Think of it this way: If Copilot saves you even 2 hours per week, and your time is worth €50/hour (conservative for PE), that's €400/month in value for a €10 investment. 40x ROI!

Free Alternatives: - GitHub (free tier) - Works fine, but limited private repos - No Copilot alternative - You really need this one

Setup Order: 1. ☐ Create free GitHub account first 2. ☐ Start 30-day Copilot free trial 3. ☐ Complete Module 1-2 during trial 4. ☐ Subscribe to Copilot (you'll be convinced by then!) 5. ☐ Upgrade to GitHub Pro if working with sensitive PE models

Financial Modeling

- DCF (Discounted Cash Flow) models
 - LBO (Leveraged Buyout) analysis
 - M&A (Mergers & Acquisitions) modeling
 - Private Equity fund analysis
 - Real-world projects
-

☐ Your Learning Path

☐ Phase 1: Foundation (Week 1-2)

Day 1-2: VS Code Basics + Setup 1. ☐ Read QUICK_START_GUIDE.md - Get everything installed (30 min) 2. ☐ Complete Module_01_Setup/01_Getting_Started.md - Deep dive (1 hour) 3. ☐ VS Code Tutorial: Tutorials/01_VS_Code_Basics.md ☐ NEW! 4. ☐ Practice: Navigate VS Code, open files, use terminal

Day 3-4: GitHub & Copilot 1. ☐ Read Module_01_Setup/02_GitHub_and_Copilot.md (1.5 hours) 2. ☐ Hands-on: Tutorials/02_GitHub_Copilot_Hands_On.md ☐ NEW! 3. ☐ Set up your first repository 4. ☐ Let Copilot write your first code

Day 5-7: Python Fundamentals 1. ☐ Module_02_Python_Fundamentals/01_Python_Basics.md (3 hours) 2. ☐ Practice with Copilot: Let AI teach you Python! 3. ☐ Complete all exercises 4. ☐ VS Code Tip: Use Copilot to explain code

Week 2: Data Skills 1. ☐ Module_03_Data_Analysis/01_Pandas_for_Finance.md (4 hours) 2. ☐ Integrated Tutorial: Tutorials/03_VS_Code_Data_Analysis.md ☐ NEW! 3. ☐ Import real financial data 4. ☐ Use GitHub to track your progress

☐ Phase 2: Financial Models (Week 3-5)

Week 3: DCF Model 1. ☐ Module_04_DCF_Modeling/01_DCF_Overview.md 2. ☐ Build DCF using Copilot assistance 3. ☐ VS Code Pro Tips: Multi-cursor editing, snippets 4. ☐ Commit model to GitHub

Week 4: LBO Model 1. ☐ Module_05_LBO_Modeling/01_LBO_Overview.md 2. ☐ Use Copilot Chat for complex logic 3. ☐ Debug with VS Code debugger 4. ☐ Create your first GitHub branch

Week 5: Advanced Models 1. ☐ Module_06_MA_Analysis/ - M&A models 2. ☐ Module_07_PE_Modeling/ - PE analysis 3. ☐ Master VS Code refactoring tools 4. ☐ Build reusable model templates

☐ Phase 3: Professional Projects (Week 6-8)

Week 6-7: Real-World Projects 1. ☐ Module_09_Projects/01_LBO_Case_Study.md 2. ☐ Complete end-to-end analysis 3. ☐ Use VS Code workspace features 4. ☐ Create professional GitHub portfolio

Week 8: Advanced Topics & Portfolio 1. ☐ Module_08_Advanced_Topics/ - Automation, APIs, ML 2. ☐ Polish your best models 3. ☐ Share on GitHub (public repos) 4. ☐ Update LinkedIn with new skills!

☐ Special Tutorials (Learn VS Code While Building)

NEW! Integrated Learning Modules

1. Tutorials/01_VS_Code_Basics.md
 - Interface walkthrough
 - Essential shortcuts
 - File management
 - Terminal mastery
 - Practice: Build a simple calculator
2. Tutorials/02_GitHub_Copilot_Hands_On.md
 - First repository step-by-step
 - Copilot in action
 - Commit workflow
 - Practice: Build time-value calculator with AI
3. Tutorials/03_VS_Code_Data_Analysis.md
 - Working with data in VS Code
 - Jupyter notebooks
 - Debugging data issues
 - Practice: Analyze real company financials
4. Tutorials/04_Building_DCF_with_VS_Code.md

- Multi-file project structure
 - Using Git branches for experiments
 - Copilot for complex formulas
 - Practice: Complete DCF from scratch
5. `Tutorials/05_VS_Code_Power_User.md`
- Advanced shortcuts
 - Custom snippets
 - Task automation
 - Extensions ecosystem
-

☐ Learning Approach: See It, Try It, Build It

Every Module Follows This Pattern:

1. Watch & Learn (VS Code) - See how professionals use VS Code - Learn keyboard shortcuts in context - Understand the workflow
 2. Code Along (Copilot) - Let Copilot suggest code - Learn to prompt AI effectively - Understand what's being generated
 3. Practice (Python + Finance) - Build real financial models - Solve actual problems - Create portfolio pieces
 4. Version Control (GitHub) - Commit your progress - Track changes - Build your portfolio
-

☐ Daily Study Routine (90 minutes/day)

Morning Session (45 min)

1. Review (10 min): Yesterday's concepts
2. Learn (25 min): New module content
3. VS Code Practice (10 min): New shortcuts/features

Evening Session (45 min)


1. Code (30 min): Build examples
2. Exercise (10 min): Practice problems
3. Commit (5 min): Save to GitHub

Weekend (3-4 hours)

1. Project Work: Build complete models
 2. Experimentation: Try new approaches
 3. Portfolio: Polish and share work
-

☐ Key Concepts You'll Master

VS Code Mastery

-  Keyboard shortcuts - 10x faster workflow
- ☐ File management - Multi-file projects
- ☐ Debugging - Find and fix errors

- ☐ Code editing - Multi-cursor, refactoring
- ☐ Extensions - Customize your environment
- ☐ Terminal - Command line integration

GitHub Workflow

- ☐ Repositories - Organize projects
- ☐ Commits - Track changes
- ☐ Branches - Experiment safely
- ☐ Collaboration - Share and review
- ☐ Portfolio - Showcase your work

Copilot Skills

- ☐ Prompting - Get AI to write what you need
- ☐ Code generation - Build faster
- ☐ Learning - Understand suggestions
- ☐ Debugging - AI-assisted troubleshooting
- ☐ Verification - Check AI output

Financial Modeling

- ☐ DCF - Company valuation
 - ☐ LBO - Private equity deals
 - ☐ M&A - Transaction analysis
 - ☐ Data analysis - Financial statements
 - ☐ Automation - Repeatable workflows
-

☐ Success Milestones

☐ Week 1 - VS Code Comfortable

- ☐ Can navigate VS Code without mouse
- ☐ Set up Git repository
- ☐ Copilot generating useful code
- ☐ Completed basic Python exercises

☐ Week 2 - Data Analysis

- ☐ Import financial data from Excel
- ☐ Calculate key financial ratios
- ☐ Create visualizations
- ☐ Commit work to GitHub regularly

☐ Week 4 - First Complete Model

- ☐ Built working DCF model
- ☐ Used Copilot for 50%+ of code
- ☐ Debugged issues using VS Code
- ☐ Model in GitHub with good commits

☐ Week 6 - Professional Level

- ☐ Completed LBO case study
- ☐ Created reusable templates
- ☐ Master VS Code shortcuts
- ☐ Portfolio on GitHub

☐ Week 8 - Course Complete

- ☐ 3+ complete financial models
 - ☐ Public GitHub portfolio
 - ☐ Can build models from scratch
 - ☐ VS Code power user
 - ☐ Ready for finance career!
-

☐ Quick Reference Guides

Essential VS Code Shortcuts (Windows)

File Operations:

Ctrl+N	New file
Ctrl+O	Open file
Ctrl+S	Save
Ctrl+Shift+S	Save as
Ctrl+W	Close file
Ctrl+P	Quick open (most important!)

Editing:

Ctrl+/	Comment/uncomment
Alt+↑/↓	Move line up/down
Shift+Alt+↑/↓	Copy line up/down
Ctrl+D	Select next occurrence
Ctrl+L	Select line

Navigation:

Ctrl+G	Go to line
Ctrl+Shift+O	Go to symbol
F12	Go to definition
Alt+←/→	Navigate back/forward

Terminal:

Ctrl+`	Toggle terminal
Ctrl+Shift+`	New terminal

Copilot:

Tab	Accept suggestion
Ctrl+Enter	Show all suggestions
Ctrl+Shift+I	Open Copilot Chat

Git Workflow Cheat Sheet

Daily workflow

`git status`

Check what changed

```
git add .                # Stage all changes
git commit -m "message" # Commit with message
git push                 # Upload to GitHub

# Branching
git branch feature-name # Create branch
git checkout feature-name # Switch to branch
git merge feature-name  # Merge back to main

# Undo
git checkout -- file     # Discard changes
git reset HEAD~1         # Undo last commit
```

□ Getting Help

When You're Stuck

1. VS Code Issues - Press F1 or Ctrl+Shift+P and search for command - Check `Tutorials/01_VS_Code_Basics.md` - View → Command Palette
 2. Python Errors - Read error message carefully - Ask Copilot Chat: "Explain this error" (requires subscription) - Check module solutions files - Google: "Python [error message]"
 3. Financial Concepts - Review module theory sections - Ask Copilot: "Explain [concept]" (best with paid subscription) - Check Investopedia - Real-world examples in projects - PE Club colleagues - You have an amazing team to learn from!
 4. Git Problems - `git status` shows current state - Check `Module_01_Setup/02_GitHub_and_Copilot.md` - GitHub docs: <https://docs.github.com>
 5. Ask Your Father - Sergio built this course and knows it inside-out - He's proud of your progress and wants to help! - Share your GitHub portfolio with him
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□ Bonus Resources

Included in Course

- □ Complete Python financial modeling library
- □ DCF, LBO, M&A model templates
- □ Sample datasets (real companies)
- □ VS Code configuration files
- □ Git workflows and best practices
- □ Copilot prompt library

Your Tools

- VS Code - Your development environment
 - Python - Programming language
 - GitHub - Version control & portfolio
 - Copilot - AI coding assistant
 - Pandas - Data analysis
 - NumPy - Financial calculations
-

☐ Ready to Start?

Your First Hour:

1. Install Everything (30 min) → Read QUICK_START_GUIDE.md → Follow each step carefully → Test that everything works
 2. Learn VS Code (30 min) → Open Tutorials/01_VS_Code_Basics.md → Follow the interactive tutorial → Practice keyboard shortcuts
 3. First Code (30 min) → Create your first Python file → Let Copilot help you → Commit to GitHub
-

☐ Track Your Progress

Create a file my_progress.md in your folder:

```
# My Learning Progress
```

```
## Week 1
```

- [x] Day 1: Setup complete
- [x] Day 2: VS Code basics
- [] Day 3: GitHub setup
- [] Day 4: First model

```
## Goals
```

- Complete DCF by: _____
- Build LBO by: _____
- Portfolio ready: _____

```
## Notes
```

- Best shortcut learned: Ctrl+P
- Favorite Copilot feature: Chat
- Hardest concept: WACC calculation

Commit this file to track your journey!

☐ Your Next Steps

Right Now:

1. ☐ Open QUICK_START_GUIDE.md
2. ☐ Install VS Code, Python, Git
3. ☐ Set up GitHub account
4. ☐ Install Copilot

Tomorrow:

1. ☐ Complete Tutorials/01_VS_Code_Basics.md
2. ☐ Practice keyboard shortcuts
3. ☐ Create first repository

This Week:

1. ☐ Finish Module 1 & 2
 2. ☐ Build first financial calculator
 3. ☐ Get comfortable with Copilot
-

☐ Motivation

Why This Matters for Your PE Career:

- PE Club Edge: Automate deal analysis, impress partners
- Efficiency: Build LBO models in 30 minutes vs 3 hours
- Portfolio: Show sophisticated Python skills (rare in PE)
- Career Growth: Senior PE professionals who code earn 30%+ more
- Future-proof: AI + Finance = The future of investment analysis
- Brussels Network: Stand out in European PE community

Your father believes in you. PE Club chose you for a reason. Now add technical superpowers to your already impressive skill set!

From Brussels to the world - you've got this, Mauricio! ☐☐ → ☐

☐ Course Structure Summary

Course Root

START_HERE.md (You are here!)

QUICK_START_GUIDE.md (Begin here)

README.md (Course overview)

LEARNING_PATH.md (Detailed paths)

Module_01_Setup/

01_Getting_Started.md

02_GitHub_and_Copilot.md

Tutorials/ Beginner-focused!

01_VS_Code_Basics.md

02_GitHub_Copilot_Hands_On.md

03_VS_Code_Data_Analysis.md

04_Building_DCF_with_VS_Code.md

05_VS_Code_Power_User.md

Module_02_Python_Fundamentals/

Module_03_Data_Analysis/

Module_04_DCF_Modeling/

Module_05_LBO_Modeling/

Module_06_MA_Analysis/

Module_07_PE_Modeling/

Module_08_Advanced_Topics/

Module_09_Projects/

☐ Final Words from Your Father

Mauricio,

You're learning three careers in one: 1. Software Developer (VS Code, Git, Python) 2. Financial Analyst (Modeling, Valuation) ☐ Already mastering this at PE Club! 3. AI Engineer (Copilot, Automation)

You already have the financial acumen - you prove that every day in Brussels. Now you're adding the technical weapons that will make you unstoppable.

Take it step by step. Every expert was once a beginner.

I'm so proud of the professional you've become. This course is my way of helping you become even better.

Remember: Subscribe to Copilot - it's the secret sauce that makes everything click.

With all my love and pride,

Sergio Muñoz de Alba Medrano

P.S. - Keep an eye out for a special surprise when you complete your first project... ☐

Ready? Let's transform your career to the next level! ☐

► BEGIN HERE

☐ Next Step: Open QUICK_START_GUIDE.md and install everything

☐ Then: Read Tutorials/01_VS_Code_Basics.md for your first lesson

Questions? Every module has solutions and examples!

Good luck! You've got this! ☐

Last updated: November 29, 2025 Course version: 1.0 For: Complete beginners to VS Code