







# PRE\_WORKSHOP\_CHECKLIST

- [Pre-Workshop Environment Checklist](#)
  -  [Required Setup \(Complete Before Workshop\)](#)
    - [1. GitHub Account & Copilot Subscription](#)
    - [2. Visual Studio Code Installation](#)
    - [3. VS Code Extensions](#)
    - [\(Optional\) Use the Dev Container](#)
    - [4. .NET 9 SDK Installation](#)
    - [5. Git Installation & Configuration](#)
    - [6. Clone Workshop Repository](#)
    - [7. Verify Solution Builds](#)
    - [8. Verify GitHub Copilot Integration](#)
  -  [Workshop Day Quick Check \(5 minutes before\)](#)
  -  [Common Issues & Solutions](#)
    - [Issue: "GitHub Copilot is not available"](#)
    - [Issue: "dotnet: command not found"](#)
    - [Issue: Build fails with "SDK not found"](#)
    - [Issue: Copilot suggestions not appearing](#)
    - [Issue: Extensions not loading](#)
    - [Issue: Git clone fails](#)
  -  [Getting Help](#)
  -  [Final Checklist](#)
  -  [You're Ready!](#)

## Pre-Workshop Environment Checklist

Use this checklist to verify your environment is ready **before** attending the GitHub Copilot workshop. Completing these steps in advance ensures you can focus on learning during the workshop without setup delays.

### Required Setup (Complete Before Workshop)

#### 1. GitHub Account & Copilot Subscription

☐

**GitHub account created**

- Visit [github.com](https://github.com) to sign up if needed

☐

**GitHub Copilot subscription active**

- Individual: \$10/month or \$100/year
- Business: Through your organization
- Students/Teachers: Free through [GitHub Education](#)

☐

## Verify subscription status

1. Go to [github.com/settings/copilot](https://github.com/settings/copilot)
2. Should show "GitHub Copilot is active"
3. Note your subscription type (Individual/Business/Free)

## Troubleshooting:

- If no subscription: Visit [github.com/features/copilot](https://github.com/features/copilot) to subscribe
  - If using Business/Organization: Contact your admin to be added
- 

## 2. Visual Studio Code Installation



### VS Code installed (version 1.80 or later)

- Download: [code.visualstudio.com](https://code.visualstudio.com)
- Verify: Run code `--version` in terminal

Expected output:

1.95.0 (or later)

### Platform-specific notes:

- **macOS:** Install VS Code, then open Command Palette (Cmd+Shift+P) → "Shell Command: Install 'code' command in PATH"
  - **Windows:** Add to PATH during installation
  - **Linux:** Follow distribution-specific instructions
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## 3. VS Code Extensions

Install these required extensions:



### GitHub Copilot (GitHub.copilot)

1. Open VS Code
2. Click Extensions icon (left sidebar) or press Cmd/Ctrl+Shift+X
3. Search for "GitHub Copilot"
4. Click "Install"
5. Sign in with your GitHub account when prompted



### GitHub Copilot Chat (GitHub.copilot-chat)

- Search for "GitHub Copilot Chat"
- Click "Install"



### C# Dev Kit (ms-dotnettools.csdevkit)

- Search for "C# Dev Kit"

- Click "Install"
- Includes C# language support, IntelliSense, and debugging

### Verify extensions installed:

1. Open Command Palette (Cmd/Ctrl+Shift+P)
2. Type "Extensions: Show Installed Extensions"
3. Confirm all three are listed

### Verify Copilot is working:


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## (Optional) Use the Dev Container



### Use the Dev Container:

Open the project in VS Code and select Dev Containers: Reopen in Container from the Command Palette. This will automatically set up all required tools and extensions for the workshop. See the main README for details.

1. Create a new file: test.cs
  2. Type: // Function to calculate fibonacci
  3. Press Enter - you should see gray "ghost text" suggestions
  4. Press Tab to accept or Esc to dismiss
  5.  If you see suggestions, Copilot is working!
  6. Delete test file
- 

## 4. .NET 9 SDK Installation



### .NET 9 SDK installed

- Download: [dotnet.microsoft.com/download/dotnet/9.0](https://dotnet.microsoft.com/download/dotnet/9.0)
- Choose ".NET 9 SDK" (not Runtime)
- Run installer for your platform



### Verify installation

Run in terminal:

```
dotnet --version
```

Expected output:

9.0.x (any 9.x.x version is fine)

### Common issues:

- **Command not found:** Restart terminal or reboot computer
  - **Old version showing:** Uninstall old versions, reinstall .NET 9, restart terminal
  - **Multiple versions:** That's OK! The workshop uses .NET 9, but having 6/7/8 won't hurt
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## 5. Git Installation & Configuration



### Git installed

- macOS: Install via [Xcode Command Line Tools](#) or [Homebrew](#)
- Windows: Download from [git-scm.com](https://git-scm.com)
- Linux: Use package manager (apt, yum, dnf)



### Verify Git version

```
git --version
```

Expected: git version 2.30 or later



### Configure Git identity (if not already done)

```
git config --global user.name "Your Name"
git config --global user.email "your.email@example.com"
```



### Verify configuration

```
git config --global user.name
git config --global user.email
```

Should display your name and email.

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## 6. Clone Workshop Repository



### Clone the repository

```
git clone https://github.com/centricconsulting/ai-coding-workshop.git
cd ai-coding-workshop
```



### Create your own branch from main

```
git checkout main
git pull
git checkout -b my-workshop-branch
```

*Replace my-workshop-branch with your name or a unique identifier.*



### Open in VS Code

```
code .
```

VS Code should open with the workshop repository.

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## 7. Verify Solution Builds



### Restore dependencies

`dotnet restore`

Expected: "Restore succeeded" with no errors



### Build solution

`dotnet build`

Expected output:

```
Build succeeded in X.Xs
TaskManager.Domain succeeded
TaskManager.Application succeeded
TaskManager.Infrastructure succeeded
TaskManager.Api succeeded
TaskManager.ConsoleApp succeeded
TaskManager.UnitTests succeeded
TaskManager.IntegrationTests succeeded
```



### Run tests (should have failures - this is expected!)

`dotnet test`

Expected output:

Test summary: total: 11, failed: 11, succeeded: 0

 **This is correct!** The 11 failing tests are placeholders you'll implement during the workshop.

### Build issues?

- Run `dotnet clean` then try again
- Check .NET version is 9.x
- Ensure all extensions are installed

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## 8. Verify GitHub Copilot Integration



### Open a C# file

- Navigate to `src/TaskManager.Domain/Tasks/Task.cs`



## Check Copilot status bar

- Look at bottom-right of VS Code window
- Should see GitHub Copilot icon
- Icon should show checkmark (✅) or be blue/white (active)
- If red/crossed out, click it and sign in



## Test inline suggestions

1. At the end of the file, add a new line
2. Type: `// Method to validate task title`
3. Press Enter
4. Start typing: `public static bool`
5. You should see gray "ghost text" completing the method
6. Press Tab to accept or Esc to dismiss
7. Delete the test code



## Test Copilot Chat

1. Open Copilot Chat: `Cmd/Ctrl+Shift+I` (or click chat icon in left sidebar)
2. Type: What testing frameworks are used in this project?
3. Press Enter
4. Should get a response mentioning xUnit and FakeItEasy
5. ✅ Chat is working!



## Test @workspace participant

1. In Copilot Chat, type: `@workspace` Where is the Task entity defined?
2. Should respond with file path: `src/TaskManager.Domain/Tasks/Task.cs`
3. ✅ Workspace context is working!

## Copilot not working?

- Click Copilot icon in status bar → "Sign in to GitHub"
- Check subscription at [github.com/settings/copilot](https://github.com/settings/copilot)
- Reload window: Command Palette → "Developer: Reload Window"
- Check internet connection (Copilot requires online access)



## Workshop Day Quick Check (5 minutes before)

Run these commands to verify everything still works:

```
# 1. Check .NET
dotnet --version
# Should show: 9.x.x

# 2. Navigate to workshop directory
cd path/to/ai-coding-workshop
git checkout main
```

# 3. Pull latest changes

```
git pull origin main
```

# 4. Verify build

```
dotnet build
```

# Should show: Build succeeded

# 5. Check Copilot status in VS Code

```
code .
```

# Check status bar icon is active (✅)

---



## Common Issues & Solutions

### Issue: "GitHub Copilot is not available"

#### Solution:

1. Check subscription: [github.com/settings/copilot](https://github.com/settings/copilot)
2. Sign out and back in: Click Copilot status bar icon → Sign out → Sign in
3. Reload VS Code window: Command Palette → "Developer: Reload Window"

### Issue: "dotnet: command not found"

#### Solution:

1. Ensure .NET 9 SDK is installed (not just Runtime)
2. Restart terminal/computer after installation
3. Check PATH environment variable includes .NET

### Issue: Build fails with "SDK not found"

#### Solution:

1. Run `dotnet --list-sdks` to see installed SDKs
2. Should include `9.0.xxx`
3. If missing, reinstall .NET 9 SDK
4. If multiple SDKs, ensure `global.json` (if present) doesn't pin to old version

### Issue: Copilot suggestions not appearing

#### Solution:

1. Ensure you're typing in a supported file (`.cs`, `.md`, etc.)
2. Wait 1-2 seconds after typing
3. Check Copilot isn't disabled for the file type
4. Try closing and reopening the file
5. Check Copilot status bar icon isn't showing error

## Issue: Extensions not loading

### Solution:

1. Ensure VS Code is up to date (Help → Check for Updates)
2. Disable other AI/autocomplete extensions that might conflict
3. Reload window: Command Palette → "Developer: Reload Window"
4. Reinstall extensions if needed

## Issue: Git clone fails

### Solution:

1. Check internet connection
  2. If using SSH: Ensure SSH keys are configured on GitHub
  3. Try HTTPS instead: `git clone https://github.com/centricconsulting/ai-coding-workshop.git`
  4. Check firewall/proxy settings
- 



## Getting Help

If you encounter issues completing this checklist:

### 1. Check workshop documentation:

- Main README: README.md
- Facilitator Guide: docs/FACILITATOR\_GUIDE.md

### 2. Official documentation:

- [GitHub Copilot Docs](#)
- [.NET Installation Guide](#)
- [VS Code Setup](#)

### 3. Contact workshop facilitator:

- Reach out via email/Slack before the workshop
- Arrive 15 minutes early for help

### 4. Backup plan:

- If all else fails, we can use GitHub Codespaces (cloud-based VS Code)
  - Requires only a browser and GitHub account
- 



## Final Checklist

Before the workshop, confirm:

☐

GitHub Copilot subscription is active

☐



- ☐ VS Code with all 3 extensions installed (Copilot, Copilot Chat, C# Dev Kit)
  - ☐ .NET 9 SDK installed (`dotnet --version` shows 9.x.x)
  - ☐ Git installed and configured
  - ☐ Workshop repository cloned and personal branch created from main
  - ☐ Solution builds successfully (`dotnet build`)
  - ☐ Tests run and show 11 expected failures (`dotnet test`)
  - ☐ Copilot inline suggestions work
  - ☐ Copilot Chat responds to queries
  - ☐ Workspace context works with @workspace
- 

## You're Ready!

If all items above are checked, you're fully prepared for the workshop! 🎉

See you at the workshop! Bring:

- ☒ Your laptop with the environment set up
- ☒ Power adapter (3-hour workshop)
- ☒ Curiosity and willingness to experiment
- ☒ Questions about AI-assisted development

**Note:** If you couldn't complete all checklist items, still attend! Facilitators will help during the setup period, and we have backup options available.