GitHub Spec Kit Training - Quick Start Guide

Get Started in 5 Minutes

For: Jarvis Richardson, CAIO, hanax-ai

Goal: Begin intensive 5-7 day GitHub Spec Kit training immediately

Target: 80% autonomous proficiency + teaching capability



Mark Immediate Next Steps

Step 1: Validate Your Environment (5 minutes)

On Windows 11 PC:

```
# Open WSL2/Ubuntu terminal
cd /home/ubuntu/github spec training
./validate environment.sh
```

On DevOps Server:

```
# SSH to your DevOps server
ssh username@your-devops-server.hx-infrastructure.com
cd /home/ubuntu/github spec training
./validate environment.sh
```

Expected Result: All checks pass, ready to begin training

Step 2: Begin Day 1 Training (Immediately)

```
# Start Day 1 Foundation Training
cd curriculum
cat day1 foundation.md
# Follow the structured 6-8 hour curriculum
# Complete all validation checkpoints
# Document your progress and learnings
```

Step 3: Track Your Progress

Daily Validation:

- Complete all exercises in exercises/progressive_exercises.md
- Validate proficiency using exercises/validation checkpoints.md
- Document learnings for future teaching

Success Metrics:

- Day 1: 60-70% proficiency (foundation skills)
- Day 2: 70-80% proficiency (intermediate application)
- Day 3: 80%+ proficiency (advanced techniques)

- Day 4: 85%+ proficiency (expert-level projects)
- Day 5: 85%+ proficiency + teaching capability

Training Program Structure

Day 1: Foundation & Setup Mastery

- Environment validation and GitHub Spec Kit installation
- SDD methodology fundamentals (Specify, Plan, Tasks, Implement)
- First complete project with HX-Infrastructure integration
- Target: 60-70% proficiency in foundation skills

Day 2: Intermediate Application with Archive Integration

- HX-Infrastructure archive analysis and pattern extraction
- Real-world project specification and implementation
- Advanced planning with complex integration requirements
- Target: 70-80% proficiency in intermediate skills

Day 3: Advanced Techniques and Optimization

- Advanced Spec Kit features and workflow optimization
- Complex scenario handling and edge case management
- Performance optimization and advanced integration patterns
- Target: 80%+ proficiency in advanced skills

Day 4: Complex Project Application and Troubleshooting

- Enterprise-grade project execution from start to finish
- Advanced troubleshooting and crisis management
- Production-ready solution development
- Target: 85%+ proficiency in expert-level skills

Day 5: Expert-Level Proficiency and Teaching Preparation

- Comprehensive mastery validation and certification
- · Teaching curriculum and material development
- Innovation and continuous improvement demonstration
- Target: 85%+ proficiency + qualified instructor certification

® Success Criteria

Technical Mastery (80%+ Required):

- [] Can initialize and configure GitHub Spec Kit projects independently
- [] Demonstrates mastery of all four SDD phases
- [] Successfully integrates AI agents with Spec Kit
- [] Applies spec-driven methodology to real HX-Infrastructure scenarios
- [] Troubleshoots common issues without external assistance
- [] Creates comprehensive specifications for complex projects

• [] Optimizes workflows for efficiency and quality

Teaching Capability (70%+ Required):

- [] Can explain SDD concepts clearly to beginners
- [] Demonstrates practical exercises effectively
- [] Provides constructive feedback on student work
- [] Adapts teaching approach to different learning styles
- [] Creates assessment criteria and validates proficiency
- [] Troubleshoots student environment issues
- [] Maintains updated curriculum and materials



If You Encounter Issues

Environment Problems:

```
# Get installation help
./validate environment.sh --install-help
# Check troubleshooting guides
cat environment setup/windows11 setup.md
cat environment setup/devops server setup.md
```

Training Questions:

- Review teaching materials/instructor guide.md for detailed guidance
- Check exercises/validation checkpoints.md for assessment criteria
- Use archive_integration/integration_strategy.md for HX-Infrastructure context

Technical Support:

- All materials are self-contained and comprehensive
- Troubleshooting guides included for common issues
- Progressive exercises build skills systematically
- · Validation checkpoints ensure consistent progress



Daily Schedule Recommendation

Intensive Schedule (Recommended):

- Morning (3-4 hours): Core curriculum and new concepts
- Afternoon (3-4 hours): Hands-on exercises and implementation
- Evening (1-2 hours): Validation, documentation, and preparation

Flexible Schedule (Alternative):

- Spread over 7 days: 5-6 hours per day
- Weekend intensive: 2 full days + 3 half days
- Part-time: 2-3 hours daily over 10-14 days

***** Certification Levels

Upon completion, you'll achieve one of these certification levels:

Certified SDD Practitioner (80-84% proficiency):

- Can work independently on most SDD projects
- Demonstrates solid understanding of methodology
- Produces professional-quality work consistently
- · Can mentor beginners with guidance

Certified SDD Expert (85-89% proficiency):

- Handles complex scenarios with confidence
- Demonstrates advanced optimization techniques
- Can teach and mentor others effectively
- Contributes to process improvement and innovation

Certified SDD Master (90%+ proficiency):

- Masters all aspects of SDD methodology
- Demonstrates thought leadership and innovation
- Can design and deliver comprehensive training programs
- Drives adoption and excellence across organizations

Ready to Begin?

Your intensive GitHub Spec Kit training journey starts now!

- 1. **Validate Environment:** ./validate_environment.sh
- 2. Start Day 1: cd curriculum && cat day1 foundation.md
- 3. Track Progress: Use validation checkpoints daily
- 4. Document Learnings: Prepare for teaching others
- 5. **Achieve Mastery:** 80%+ proficiency in 5-7 days

Remember: This is an intensive program designed for rapid skill acquisition. Stay focused, practice consistently, and don't hesitate to revisit concepts as needed.

Good luck with your training! You've got this! @

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