

AI Workflows for AEC Professionals Course Online

Group classes in Live Online and onsite training is available for this course. For more information, email partnerships@vdc.edu or visit: <https://vdc.edu/courses/a-i-workflows-for-aec-professionals-course-online>



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Course Outline

Lesson 1: Pre-Design & Programming

- Site Analysis & Zoning
- AI-Driven Building Programs
- Intro to Data Formatting
- Assignment: Graded Discussion Forum Post

Lesson 2: Schematic Design

- Iterative & Generative Design
- Real-time Cost Estimating
- Visual Concept Generation
- Assignment: Hands-On Quiz – Prompting Techniques

Lesson 3: Construction Documentation

- Scripting for CAD/BIM
- AI Code Studies
- Generating Sheet Lists & Notes
- Assignment: Midterm Submission – Spec Analysis & RFI Log

Lesson 4: Bidding & Proposals

- Bid Leveling with AI
- Writing Technical Proposals
- Qualification Evaluation
- Assignment: Hands-On Quiz – Predictive Analysis

Lesson 5: Construction Management

- AI Scheduling
- Field Report Analysis
- Real-time Budget Tracking
- Assignment: Hands-On Quiz – Pattern Techniques

Lesson 6: Finalizing the Project

- Commissioning Logs
- Post-Occupancy Scripts
- Deploying the App UI
- Assignment: Final Submission – Complete AI Web-App & Documentation