KOENIG SOLUTIONS · COURSE OUTLINE

Altium Designer Schematic Fundamentals

2 Days	4	19
DURATION	MODULES	TOPICS

COURSE OVERVIEW

Schematic design is the foundation of every successful PCB. This in-depth, hands-on training explores schematic design processes with Altium Designer and the workspace, equipping you with advanced techniques to create error-free designs, enhance efficiency, and streamline workflows. Instructor-led training helps you create accurate, efficient schematic designs. Create accurate, efficient schematic designs with hands-on, guided training. Leverage the workspace to streamline collaboration and prepare designs for PCB layout. Showcase your skills with a certificate of completion.

WHO THIS COURSE IS FOR

- New users learning schematic design in Altium Designer.
- Experienced designers transitioning to Altium Designer.
- Current users enhancing schematic capture skills.
- Engineering teams standardizing design workflows.
- Educators teaching PCB design fundamentals.

TOOLS AND REQUIREMENTS

- A stable internet connection
- Access to an Altium Account
- Latest Altium Designer installation

COURSE SYLLABUS

4 Modules, 19 Topics

01

Introduction: Navigating the Workspace and the Design Environment

TOPICS

- Workspace Navigation: Learn how to access the workspace, navigate folder structures, and utilize the Explorer panel to manage projects effectively.
- Design Environment Setup: Discover how to tailor the design environment to your needs, optimizing panels, toolbars, and menus for efficient project work.
- Project Management: Access existing design projects or create new ones within the workspace for seamless project management and collaboration.
- Schematic Preferences Setup: Configure schematic environment preferences to streamline design capture and ensure consistency across projects

02

Schematic Capture and Design Fundamentals

TOPICS

- Optimized Schematic Component Placement: Access and place components efficiently using workspace libraries, ensuring a streamlined design flow.
- Creating Connectivity: Set up connections between components to establish accurate electrical pathways.
- Configuring Schematic Grids & Cursors: Customize schematic grids and cursor settings to improve alignment, organization, and ease of use.
- Managing Graphic & Electrical Objects: Learn to handle graphic and electrical objects effectively to maintain clarity and accuracy in your schematic sheets.
- Component Annotation: Properly annotate components to ensure unique identification throughout the design process.
- Global Editing Capabilities: Use global editing tools to make swift, consistent changes across multiple components or design elements.
- Applying Electrical Rules: Define and enforce electrical rules to maintain design integrity and avoid errors.
- Design Verification: Perform design checks to verify connectivity, rule adherence, and design accuracy.
- Creating Hierarchical Designs: Organize complex designs using hierarchical structures for clarity and manageability.
- Managing Multi-Sheet Designs: Control multi-sheet designs to handle larger projects systematically.
- Transferring Design Rules to PCB: Transfer schematic rules to the PCB layout, ensuring continuity and consistency in the design process

03

Documentation and Output Generation

TOPICS

- Bill of Materials (BOM): Create a detailed BOM that lists all components and quantities for assembly.
- Output Job Files: Utilize Output Job files to streamline the generation of multiple outputs, ensuring consistency, and accuracy.
- Design Review: Conduct project reviews using workspace Commenting and Task features to facilitate team feedback and collaborative problem-solving.

04

Bonus Content

TOPICS

- Component Creation: Learn how to create and manage components in the workspace, including defining symbols, assigning footprints, and ensuring proper storage for reuse.

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

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