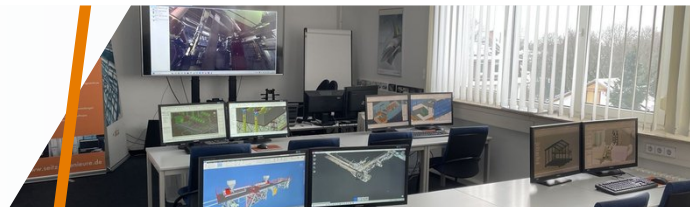


AutoCAD for Electrical Building Services

Advanced · electrical, data and telecom engineering – 2 days



Task & goal

- ▶ A team that masters its tools.
- ▶ You want training that fits your level exactly – from beginner to administrator.
- ▶ You want what you learn to stick.



Our solution

- ▶ Assess needs online, individual or company training as an Autodesk Authorized Training Center.
- ▶ Video courses and online manuals for reference.
- ▶ Three months of video course and handout included after training.



Your advantage

- ▶ **Time saved:** Only the topics needed, less downtime.
- ▶ **Competitive edge:** Team productive sooner.
- ▶ **Simpler:** Look things up right in the project.
- ▶ **Added value:** Knowledge stays in the company.

Work organization instead of the drawing board. Two days of AutoCAD for drafters and designers in electrical, data and telecom engineering: a clean layer structure, installation symbols with attributes, the architect's floor plan as a reference, schematics, automatic legends and standard-compliant output – all on one neutral sample project, an office building with plant room, sub-distribution board and floor distributor.



2 days

16 lessons in four blocks per day



up to 10

participants per course



AutoCAD

without add-ons – toolsets and BIM as an outlook



Certificate

incl. evaluation form

WHO AND HOW

Target group

Drafters and designers in electrical, data and telecom building services with basic AutoCAD knowledge

Method

every block: short theory, live demonstration, guided and independent exercise, review

Course hours

9:00 am – 4:15 pm – four 90-minute blocks, lunch and two breaks

AFTER THE COURSE YOU CAN

- ▶ build drawings with a layer structure by trade and system
- ▶ attach floor plans as external references and draw installation plans
- ▶ generate legends and BOMs from the drawing, automate routine work
- ▶ maintain and provide installation symbols as blocks with attributes
- ▶ present overview diagrams, circuit diagrams and data network schematics
- ▶ output drawings: layouts, title block, plot styles, PDF sheet set

DAY 1 – PROJECT STRUCTURE, SYMBOLS, REFERENCES

1 Start

efficient drawing and editing commands, object snap, quick select

2 Layers and template

power, lighting, data, telecom/fire alarm; layer standards, DWT

3 Symbol library

blocks with attributes, symbols per DIN EN 60617, tool palette

4 Installation plan

architect's plan as XRef, populate the ground floor

DAY 2 – SCHEMATICS, AUTOMATION, OUTPUT

1 Dynamic blocks

sockets and switches as one block with visibility states

2 Schematics

distribution board, lighting control, structured cabling, DIN EN IEC 81346

3 Automation

legend and BOM via data extraction, palettes, macros

4 Output

layouts, plot styles, PDF sheet set – final exercise: complete sheet set for the upper floor

MATERIALS

- ▶ Course manual with project data and step-by-step instructions
- ▶ Checklist "Clean building services drawing"
- ▶ Exercise files and sample solutions, symbol library, drawing template
- ▶ 10 exercises that build on each other

Dates and terms

Company training live online: **€1,280 per training day for your group** (up to 8 people, not per person; 8 lessons of 45 min. in 4 blocks), net plus VAT. As company training for your team – live online or in Frankfurt – and in open courses. Quotation on request. For company training we agree in advance: your symbol library, drawing template and layer standards, AutoCAD variant and version, and the link to your BIM process.

Note: The course is about working with AutoCAD. Standards are referenced but not interpreted; the exercise data are neutral training examples, not construction design.



Dates and company training: vertrieb@seitz-ingenieure.de • +49 69 9450725-0 • www.seitz-ingenieure.de/schulungen/