

BIM: Building Information Modeling with Revit Software

Certificate Course



Field of Study

Building Information Modeling (BIM)

captures and connects all essential information about a construction project within a central digital model. It enables efficient collaboration, real-time access to project data, simulation and comparison of different design solutions.

Build a solid foundation in BIM and gain a clear understanding of relevant legal, regulatory, and industry standards, such as ISO 19650.

The online course prepares you for the **buildingSMART Professional Certification – Foundation Level**.

Put your BIM knowledge into practice with Autodesk Revit!

As part of a planning team, you will:

- **Create & Model**

Floor plans and 3D building elements such as walls, windows, roofs, and façades.

- **Detect & Resolve**

Identify and resolve clashes between building components and different disciplines.

- **Design & Document**

Develop and present design concepts, create 2D documentation, and export project data.

A person with glasses and a plaid shirt is seen from the side, working on a computer. There are multiple monitors displaying architectural software, including a 3D model of a building. A white hexagonal graphic is overlaid on the image, containing the text 'Design energy-efficient buildings with Autodesk Revit'.

**Design energy-
efficient buildings
with Autodesk
Revit**

Study Objectives

- **Master the fundamentals of BIM theory**
- **Create rule-based models using Autodesk Revit**
- **Review and evaluate BIM models**
- **Perform clash detection and BIM coordination**
- **Collaborate effectively in BIM teams**

Course Structure

At the beginning of the course, you will receive access to [Moodle](#), the digital learning platform used for communication and the exchange of information between lecturers and participants.

[Twelve live sessions](#) are scheduled. These sessions take place online and combine theoretical input with practical exercises.

Each session consists of 2 teaching units (TU) covering the topics “[BIM Theory and Application](#)” and 2 TU of “[Practical exercises using Autodesk Revit](#)”.

A thirteenth session is scheduled at the end of the course for the two optional exams:

- Revit Practical Test
- buildingSMART “Professional Certification – Foundation” Exam

Lecturers

The BIM Revit course is taught by experienced university lecturers and professors who bring extensive practical expertise in the BIM method and Revit software from their professional backgrounds as architects and civil engineers.



Course Content

BIM Theory and Application:

- Introduction to BIM, information management, and ISO 19650 principles
- BIM terminology, roles, responsibilities, and information requirements (OIR, PIR, AIR, EIR)
- BIM Execution Plan (BEP), delivery planning, and Common Data Environment (CDE)
- Level of Information Need (LOIN), BIM objectives, and use cases
- OpenBIM standards and interoperability (IFC, MVD, bSDD, IDS, BCF)
- Model coordination, quality assurance, information security, and asset information management

Practical exercises with Autodesk Revit:

- Project setup and BIM model organization
- BIM modeling of architectural and structural components, including walls, floors, doors, windows, roofs, façades, and stairs
- Managing model information, parameters, schedules, and quantities
- IFC export and interoperability workflows
- Model federation and clash detection using BIM coordination tools
- BIM documentation and delivery according to information requirements



Overview

Duration: 7 weeks

Start: Annually

Dates: 05 Jan - 16 Feb 2027

Schedule: 13 sessions, Tuesdays & Thursdays

Format: Online

Certificates:

Certificate issued by Berliner Hochschule für Technik (BHT) and optional buildingSMART Certificate "Professional Certification – Foundation" (additional fee applies)

Admission Requirements:

Basic knowledge of construction or architecture

Target Audience:

Construction planners, architects, civil engineers, property managers, construction contractors, and employees of public-sector construction departments

Fees:

- Course Fee: **€1,750** (VAT-exempt)
- Optional buildingSMART exam: **€357** (including 19% VAT)

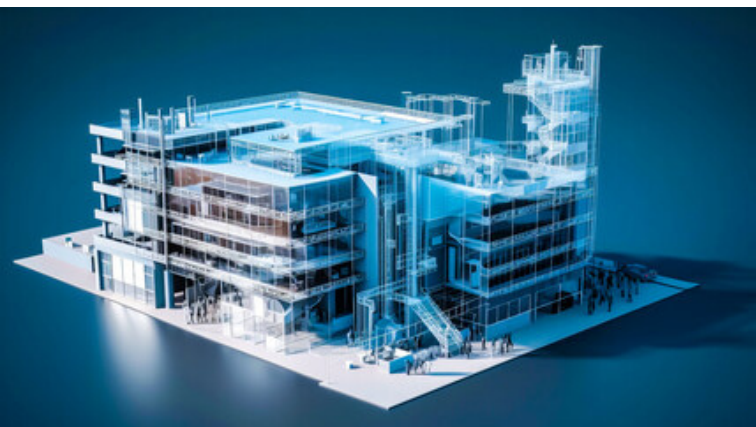
Please note that a Revit license is required to participate in the course. If you do not have a license, Revit tokens can be purchased.

If you have any questions, feel free to contact us.

Testimonial

"I am very satisfied with the course. It offered the perfect balance of theory and practice. The theoretical foundations were explained clearly and concisely, and the hands-on Autodesk Revit exercises allowed us to put our knowledge into practice right away."

**Dipl.-Ing. (FH) Lutz Gableske,
Graduate of the German-language BIM course**



**Further information is available on our
website**

www.bht-berlin.de/weiterbildung/bim-1/en

Consultation

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