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BIM Basics – Online Training

Learn BIM fundamentals flexibly online

Course Description

BIM competence is currently developing into one of the most relevant suitability criteria for tenders. The competitiveness of companies in the construction and real estate industry will be heavily dependent on knowledge of BIM-compliant work in future. Through this e-learning course, you pick up the fundamentals of the BIM method easily online – wherever you are and at a time that is flexible to suit you, through web-based training and videos. Short, interactive sections of training and a clearly structured modular design make it easy for you. With the integrated knowledge tests, you can immediately check your newly acquired knowledge and repeat learning units if necessary. Real-life BIM examples guarantee that the course offers practical application. The training is based on ISO 19650 from 2019 and covers the curriculum according to the VDI 2552 directive, page 8.1.

Who should attend

- Managing directors, managers, builders, building contractors, architects, structural engineers, manufacturers of building products
- Specialist planners, surveyors, project controllers, project developers, and asset, property and facility managers
- In-house technicians and craftspeople
- Novices who check and prepare BIM implementation in the company
- People responsible for BIM from the company

Course Objectives

- You acquire extensive knowledge of the BIM method.
- You increase your competence with regard to information processing of building data over the entire life cycle.

Course contents

Module 1: The basics of BIM (runtime approx. 60 minutes)

- Background and development
- Term definition, history of BIM introduction and initiatives
- BIM influence factors, opportunities and risks

Module 2: BIM applications and tools (runtime approx. 45 minutes)

- Principles of application
- Applications and tools for planning, implementation and operation
- Opportunities and risks

Module 3: Coordination and data exchange (runtime approx. 45 minutes)

- Roles and responsibilities
- Data exchange
- Model coordination

Module 4: Object-oriented model structure (runtime approx. 45 minutes)

- Principles of object-oriented modeling
- Model building
- Documentation

Module 5: BIM implementation (runtime approx. 60 minutes)

- BIM implementation in the company
- BIM implementation in the project
- BIM documents: Employer information requirements (EIR), BIM execution plan (BEP)



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Module 6: Standards and directives (runtime approx. 45 minutes)

- Structure and standardization
- National level: VDI 2552 directive, DIN, GEFMA directive
- European and international level
- BIM initiatives

Module 7: Communication in BIM projects (runtime approx. 45 minutes)

- Common data environment (CDE)
- Communication in planning, implementation and operation

Module 8: Legal aspects and future prospects (runtime approx. 45 minutes)

- Invitations to tender and contracting
- Contracts
- Scopes of services and remuneration
- Liability and copyright
- Future prospects

Requirements

General system requirements

- Latest version of standard web browsers (Internet Explorer version 11 or more recent, Firefox, Google Chrome, Microsoft Edge, Safari, etc.), with the ability to display HTML5
- Internet connection of at least 1 MB/s download bandwidth (recommended: 2 MB/s)
- Audio playback

Additional requirements for webinars with Adobe Connect

- Adobe® Flash® Player 13.0+

- Upload bandwidth 1 MB/s (3 MB/s when using microphone and/or webcam)
- Headset

Note

- You require an individual e-mail address for the online training course.
- E-learning as a company solution can be readily adapted to customer-specific requirements and wishes.

Methodology

The E-learning consists of a total of 8 modules. The learner can go through this in a self-determined sequence. BIM Basics – Online Training contains a varied format mix of videos, WBT modules and podcasts. Within the learning units, the learner has the opportunity to review his acquired knowledge in short quizzes.

Certificate

TÜV SÜD Certificate of Attendance

Sale Modes: Single License, Group License, SCORM Sale

Duration: 420 minutes

Number of Modules: 8 (grouped in module bundles:

Bundle 1 (M1&M2), bundle 2 (M3, M4 & M7), bundle 3 (M5, M6 & M7)

Number of Quizzes: 40

Learning Mode: Self-Paced (LMS)

Interactivity Level (1-4): 2

Language: German, English