

# Certified Expert – BIM



## **TÜV HELLAS (TÜV NORD) and BIM ACADEMY**

have joined forces to meet the demands of digital transformation in relation with Building Information Modeling (BIM).

This brand new people certification scheme on BIM has five relevant sub-schemes/ categories, which correspond to the most demanding needs of the construction industry and address the essential requirements of the Building Information Modeling workflows.

This new scheme, called **certified expert BIM “ce-BIM”**, is covering the skills for:

**ce- BIM Foundation**

**ce- BIM Specialist / Engineer**

**ce- BIM Coordinator**

**ce- BIM Common Data Environment manager**

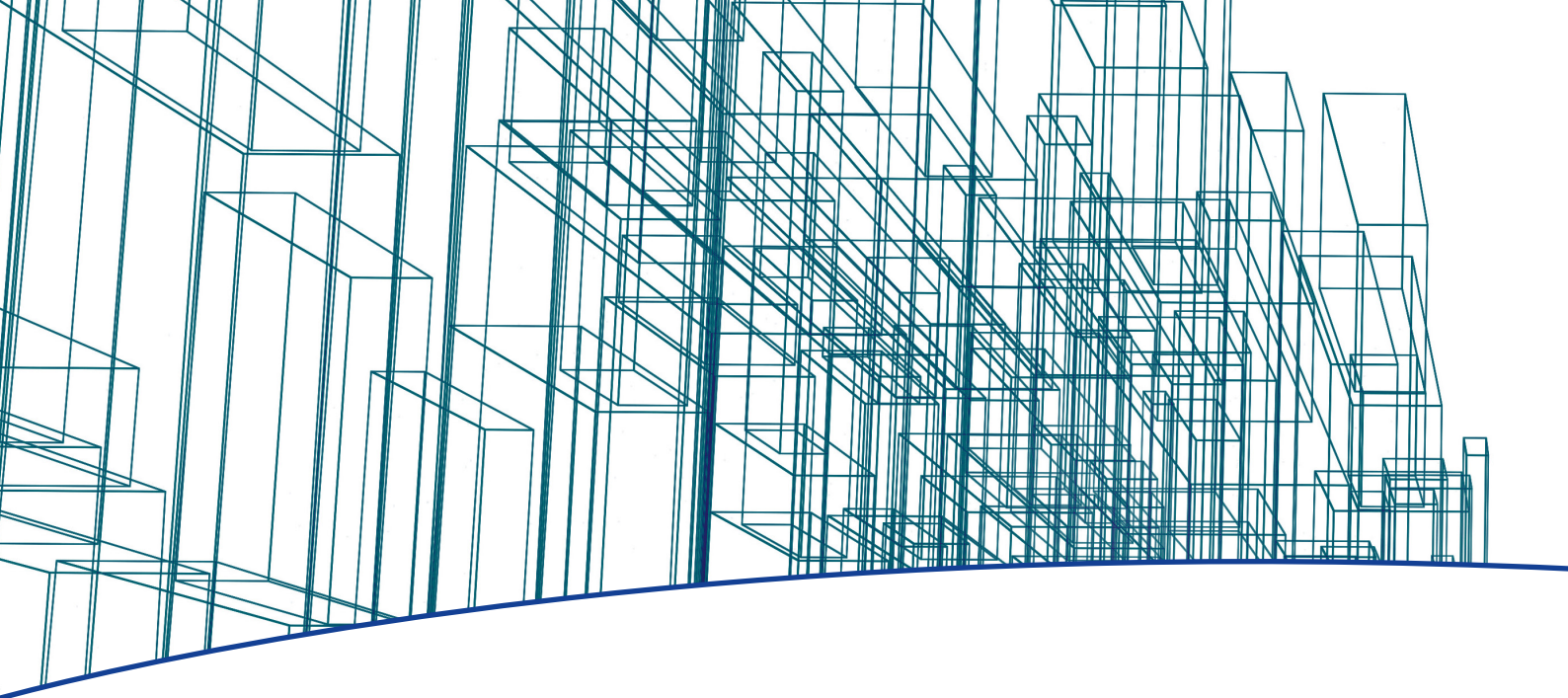
**ce- BIM Manager**

Each sub-scheme of the Certification takes into account the requirements of ISO 19650-1 / 2 and UNI 11337 standards and correspond to specific target group of professionals having relevant background in the use of the BIM technology.

Certification of technical staff and engineers will be conducted by TÜV HELLAS (TÜV NORD) based on the knowhow and background of the BIM ACADEMY.

Moreover comprehensive training programs based on the vast experience of BIM Academy, will be offered to the professionals with the sub-schemes mentioned above, in order to prepare the ground for future competent BIM resources.





### ***ce-BIM Foundation***

#### **Requirements:**

At this level, candidates are assumed familiar with the basic principles of digitization, the industry terminologies, the standards and the ways of implementation of BIM in infrastructures and Building projects.

#### **Knowledge:**

To ensure that the candidates hold the basic knowledge about BIM, its applications, the industry standards, the international digitization efforts, the organizations and groups, the benefits and general workflows of using BIM, as a design, project management, asset management/project delivery and Facility Management tool.

#### **Addressed to:**

Limited experienced professionals, engineers or architects active in the design, procurement, construction, buildings and facilities industry, including owners, operators, facility managers, manufacturers, vendors etc.

**Duration of the associated training program:** 30h.

### ***ce-BIM Specialist / Engineer***

#### **Requirements:**

Splits to 7 specialties (Architectural, Structural, MEP, Roads, Tunnels & Bridges, Rail and MetroLines and Subsurface Utilities). At this level, candidates are assumed familiar with the basic content similar to Foundation plus the design or authoring phase deployed in 7 different specializations (Architectural, Structural, MEP, Roads, Tunnels, Bridges, Rail and Subsurface utilities).

#### **Knowledge:**

To ensure that the candidates hold the knowledge and skills of creating rich 3D BIM designs that are well-knit, which are adequate to be utilized as design and project management tools, and of applying the necessary QA/QC procedures that ensure the quality of contents.

#### **Addressed to:**

Specialized engineers / professionals working at a more technical/hands on discipline like BIM Developers, BIM Architects, BIM Engineers and BIM Designers.

**Duration of the associated training program:** 60h.



### ***ce-BIM Coordinator***

#### **Requirements:**

At this level, candidates are assumed to understand really well the design coordination process, the collaboration workflows, the identification and management of constructability issues.

#### **Knowledge:**

To ensure that the candidates hold the knowledge and skills for all the disciplines and design contents, BIM execution plans, BIM Contractual obligations, authoring guidelines and BIM QA/QC processes, and that they have sufficient capacity to read & properly interpret BIM geometrical, engineering and data contents, manage and ensure BIM designs federation, manage BIM data and fluently utilize collaboration solutions and design coordination platforms to identify clashes and constructability issues, then raise proper RFI's and arriving to clash free execution activities.

#### **Addressed to:**

Senior and experienced professionals that have relevant engineering / construction background and have post construction experience like BIM coordinators, BIM specialists.

**Duration of the associated training program:** 48h.

### ***ce-BIM Common Data Environment (CDE) - Manager***

#### **Requirements:**

At this level, candidates are assumed familiar with the Information management, the Data handling, the knowledge/information sharing, the information security, the IT infrastructures development and digitization workflows relevant to BIM, the digitization and the digital infrastructure attached to it within the construction and facilities business.

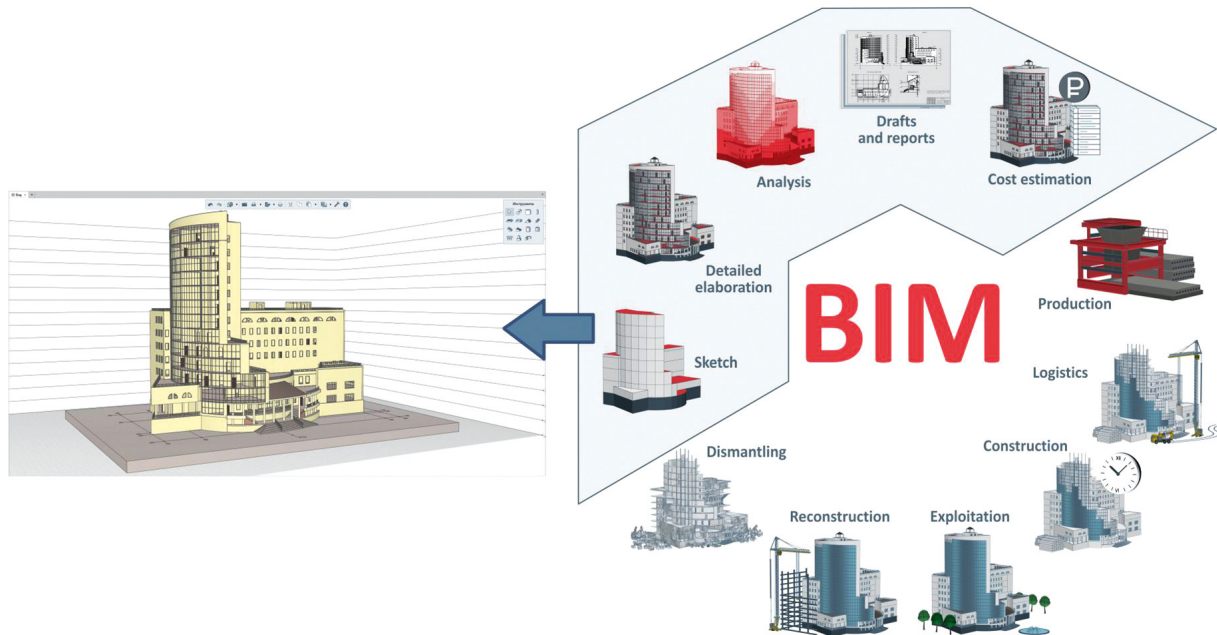
#### **Knowledge:**

The main goal of this sub-scheme is to ensure that the candidates hold the knowledge and skills related to information systems, general background about computer networks and cloud infrastructures, information exchange protocols, information security, data analysis, business intelligence, collaboration workflows, CDE protocols and standards, CDE solutions, design coordination and RFI workflows as well as document management, sharing methods/applications and BIM relevant data structuring, maintenance and distribution.

#### **Addressed to:**

Senior and specialized professionals working in the construction industry, like BIM Managers, CDE Managers.

**Duration of the associated training program:** 48h.



### **ce-BIM Manager**

#### **Requirements:**

At this level, candidates are assumed familiar with the use of BIM in the project management processes and the post construction applications by understanding the concepts of project controls, execution plans, BIM based workflows, authoring guidelines, facility information management etc.

#### **Knowledge:**

To ensure that the candidates hold the knowledge and skills to develop the required documents, to handle contractual aspects, digitization procedures, BIM workflows, QA/QC regulations, in addition to the full awareness of using BIM as a design, project and facility management tool. Candidates need to have sufficient capabilities, as well, to develop the BIM capacity within their organizations as well as drafting the road map for acquiring sufficient resources and manage them under the organization's digital policies and strategies.

#### **Addressed to:**

Specialized staff working in the construction industry like BIM managers, CDE managers, senior architects, engineering managers, technical managers and facility managers.

**Duration of the associated training program:** 60h.

#### **For more information:**

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