BIM – Building Information Modelling

BIM or Building Information Modelling is a process for creating and managing information on a construction project across the lifecycle of the project.

One of the key outputs of this process is the Building Information Model, the digital description of every aspect of the built asset. This model draws on information assembled collaboratively and updated at key stages of a project.

Creating a digital Building Information Model enables those who interact with the building to optimize their actions, resulting in a greater whole life value for the asset.

Part 1 and Part 2 of International Standard ISO 19650 have been published:

I.S. EN ISO 19650-1:2018 *Organisation and digitization of information about buildings and civil engineering works, including building information modelling (BIM) - Information management using building information modelling - Part 1: Concepts and principles*

I.S. EN ISO 19650-2:2018 *Organisation and digitization of information about buildings and civil engineering works, including building information modelling (BIM) -Information management using building information modelling - Part 2: Delivery phase of the assets*

BIM certification will be to I.S. EN ISO 19650-2:2018 under 1 or more of the following categories: BIM for employers, BIM for designers, BIM for contractors.

Parts 3 & 5 are currently under development:
(check NSAI.ie or ISO.ch for updates on publication dates)

ISO/CD 19650-3 *Organisation of information about construction works -Information management using building information modelling - Part 3: Operational phase of assets*

ISO/CD 19650-5 *Organisation of information about construction works - Information management using building information modelling - Part 5: Specification for security-minded building information modelling, digital built environments and smart asset management*

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The Irish Government has stated it will require BIM Level 2 (ISO 19650-2:2018) on complex projects from 2019, with medium and simple projects being phased in over the coming years.

BIM Level 2 maturity means that all suppliers (designers, contractors, specialists, product manufacturers, etc.) who produce information, need to do that in BIM.

[Source: BIMIreland.ie – Jan 2019]

Organisations seeking certification are requested, as a first step, to complete and return the request for quotation form (MD-00-02), this will allow NSAI offer a company specific quotation. Acceptance of this quotation then generates a formal application. On application clients will be requested to fill in a self-assessment questionnaire/checklist (CL-88-01) prior to audit.

In addition to ISO 19650 requirements the questionnaire also covers how an organisation both controls information data, and records and drives continual improvement. This may be integrated within the organisations existing ISO 9001:2015 documented system or addressed separately if not ISO 9001 certified.

Building Information Modelling and BIM certification can offer the following benefits:

- Improved safety
- Faster and more efficient processes
- Increased productivity
- Controlled whole-life costs
- Controlled environmental data
- Avoidance of rework costs
- Reduced on-site waste
- Error prevention
- Clash detection
- Opportunity to secure Government contracts

Further information:

CitA.ie
CitA was established as a research project in May 2001, with the vision of harnessing the potential of ICT in the Irish Construction Industry.

BICP.ie
The BIM Innovation Capability Programme (BICP)

BIMIreland.ie
Brought to you by the team at Irish Building Magazine

NBC
The National BIM Council (NBC) of Ireland. The NBC is a committee of construction clients and representatives from the industry supply chain with a shared ambition to set out a National Roadmap for the successful implementation of the digital design, construction and operation of built assets in Ireland.
A copy of the National Roadmap is available at NBCIreland.ie

Standards can be purchased via www.standards.ie
For request for quotation forms please see www.nsai.ie or certification@nsai.ie