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Quality check processes â€“ How to ensure high precision Building Information Models

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Quality Control Checks:

Quality Control Checks are the most important aspect of BIM model creation. Lack of quality checks and quality controls results into inaccurate as well as imperfect and incomplete BIM models. One should create 3D BIM models in various software keeping in mind that these BIM models are going to be used for actual construction phase. Thus care has to be taken while inserting details in the software provided by the client while creation of BIM models. These dataâ€™s are extracted at the time of construction. The modeler should not give only importance to graphical representation but should also pay attention towards data insertion in the BIM project model. The embedded data in the BIM are expected to be perfect, clear, precise as well as complete.

Crosschecking of clients data which are inserted in the BIM model is the first step towards Quality check. Final Quality checks are mainly done by BIM project manager or some experienced BIM personality. Before final dispatch BIM model goes through number of self checks. Accurate quality checks indirectly are the most efficient way of minimizing overall project completion time and cost. Proper quality checks results in error free models and provides 100% satisfaction at clientâ€™s side.

Types of Quality checks:

Following are the types of Quality checks performed throughout the project cycle:

1. Self Check:

Self check is mainly done by modeler of its own by comparing input data with clients data. Modeler assures that the data inserted in the model are up to the mark or not and thus highlights the data which are not clear or incomplete.

2. Visuality Checks:

Under visuality check of BIM model each and every components of the model are reviewed thoroughly. While performing visuality check one should make sure that proper design steps are followed or not and there should be any unnecessary components in the model.

3. Clash Check:

Clash check s is mainly done to detect clashes in the model. For e.g.: Frame of window clashing with wall. Thus the removal of clashes between two or more components can be included under clash or interference detection.

4. Data check:

Under this type of check, crosschecking is done between clientâ€™s data and data inserted in the software while creating BIM models.

5. Clientâ€™s Standards check:

These types of checks are only valid if client has specified to use his own standards like specific

symbols, texts, templates etc.

Quality Control Check Stages:

Quality Control Checks can be divided into two major stages:

1. Primary QC stage:

In this stage the production team primarily checks the embedded model data with data received from client side. The project leaders take the initiative and thus carry forwards a report of QC done by production team to QC department.

2 .Secondary QC stage:

Here in this stage QC department receives QC report from production team and start the analysis of the report. QC department checks for any incomplete, missing data, any errors in locating components and also proper dimensioning and annotations.

Finally the BIM Project Manager dispatches the BIM model to the client after thoroughly checked by QC department.

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