Publish Date

TRAINING, HARDWARE & SOFTWARE REQUIREMENTS MOBILIZATION PLAN

Company Name

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| 8068-ORG-XX-XX-SP-X-5351 |

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| Project Information | |
| Lead Appointed Party Name | Lead Appointed Party Name |
| Company Name | Company Name |
| Company Address | Company Address |
| Originator Code | ORG |
| Client Name | Client Name |

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| --- | --- |
| Project Details | |
| Project Name | Project Name |
| Project Address | Project Address |
| Project Number | Project Number |
| Project Value | Project Value |
| Document Reference | 8068-ORG-XX-XX-SP-X-5351 |

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| --- | --- |
| Document Status | |
| Status | Status |
| Suitability | Suitability |
| Publish Date | Publish Date |

Document Issue

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Revision | Date | Author | Checked | Approved | Revision Comments |
| *01* | *12/05/2024* | *J. Smith* | *M. Brown* | *T. Johnson* | *Initial draft completed.* |
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**Document Location:**

Template Usage Instructions

Getting Started

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**Clean-Up:** Remove this instruction text box by deleting it.

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# Technical Requirements

## Computer / Hardware Requirement

Defining the required hardware specifications is crucial to ensure project performance and information delivery. BIM authoring tools require high-performance computer systems which can support the process of authoring graphical and non-graphical information, managing and disseminating it among the concerned parties.

It is the responsibility of all appointed parties to provide the adequate hardware and software required to answer to the information requirements of the project.

## Software Requirement

BIM Model developed from Autodesk Revit is expected to be Industry Foundation Class (IFC) compliant as supported by all major BIM authoring tools to allow data interoperability.

All construction BIM modelling and relevant documentation (Combined Services Models and Combined Builder’s Works Models & Drawings) shall be completed in Autodesk Revit, any additional software used for any other purposes shall report and seek approval from the Lead Appointed Party, i.e. any software used for fabrication work should be agreed and aligned for the better data interoperability and project workflow.

Components in the BIM models shall be natively created in the design authoring software environment with compliance to BIM standard and requirement outlined in this document. Any component created solely by imported models from other software format shall not be accepted unless otherwise approved by the Lead Appointed Party.

All BIM models being developed and maintained by all Contractors shall be in approved version of format only. All models and software are subject to upgrade upon request of Lead Appointed Party for support of project need and new software functionality. All appointed parties are required to perform the upgrade at no cost for any subscription-based software.

### Approved BIM Software

The Project adopted Autodesk Revit software as its standard BIM authoring tool. Company Name (ORG) shall address all software to be used on the project as needed. Any other software applications, such as Third-Party Applications shall be approved by Company Name (ORG) before use. The Autodesk Revit products currently used are:

* Autodesk Revit Architecture.
* Autodesk Revit MEP.
* Autodesk Revit Structure.

In addition to the Revit-based applications, the following software will be adopted:

* Autodesk Navisworks.
* Autodesk 3D MAX Design.

# BIM Proficiency and Training

## Minimum BIM Literacy Requirements

* All appointed parties have any work scope in BIM shall be BIM-literate, which is a prerequisite for working on projects with BIM scope.
* All appointed parties are responsible for ensuring their own staff’s BIM literacy prior to starting work on the project and provide continual on-the-job training to ensure proficiency with the latest version of the BIM Specification required by Company Name (ORG).
* Qualifications and experience may include:
  + Number of years of experiences on full BIM projects.
  + Both construction capability and BIM fluency (for mid-level and above).
  + Professional Memberships of Institution.
  + Industry-level certificates (Revit / AutoCAD / Civil 3D…etc, Certificates issued by Autodesk).
* All appointed parties shall submit CVs of all members of the project BIM team for Company Name (ORG) review and approval.

Company Name (ORG) can offer the following training to the project team:

## BIM Project Introduction

* Available to the full project team, this training session talks through the project’s specific BIM requirements, documents, standards, and workflows.
* Project models will be utilized with hands-on Navisworks Freedom training for all delegates.
* Dalux CDE training will be provided for:
  + **Dalux Field:** This viewer gives access to the models and drawings on PC and handheld devices such as phones and tablets. Training will demonstrate how to measure in 2D and 3D as well as accessing the data within the models.
  + **Dalux Box:** The CDE for all models and drawings. Training will cover upload and download, permissions, revisioning, workflows and the approvals process.
  + **Augmented Reality:** Enabling project staff to visualize the construction on site using the camera of the mobile device and to check the installation against the BIM models.

## BIM Start-Up Session

Delivered at the start of each project to the full project team, the session provides an overview of BIM. Company Name (ORG) BIM documents, standards and workflows are explained with discussions around the project challenges and opportunities for BIM.

## Autodesk Navisworks and Dalux Software Training

Software training is available on request to individuals as well as groups. It is tailored to suit the project requirements. Delegates can learn to use Dalux to track issues through to completion with commenting and close-out. Navisworks Freedom to navigate and review models, run clash detection tests with Navisworks Manage, create 4D construction simulations or 5D quantity take-offs in Navisworks Simulate.

The results of the competence assessment and the extent of the project’s BIM requirements will inform the training programme. The table below outlines the agreed training programme for the Supermarket & Petrol Station project.

Table 1 - Project Training Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| Training Course | Attendees | Dates | Comments |
| BIM-duction: Project BIM Objectives & Deliverables and Execution Plan | Company Name (ORG) Project Team, Design Team, Supply Chain | TBC | Provided by Company Name (ORG)at no cost |
| Use of the Dalux CDE | ALL | TBC | Provided by Business Systems |
| BIM Awareness |  | TBC |  |
| BIM Management |  |  |  |
| BIM Planning |  |  |  |
| BIM Commercial |  |  |  |
| Navisworks Freedom |  |  |  |
| Navisworks Manage |  |  |  |
| Navisworks Simulate |  |  |  |
| Cost X |  |  |  |

All parties must ensure their staff have received adequate training and fully understand the project BIM requirements and deliverables.

Further BIM training courses (BIM Awareness, BIM Management, Commercial and 4D Planning and Control) are available through the training department.