## NAVISWORKS  - COURSE SUMMARY

Reach better predict project outcomes, reduce conflicts and changes, and achieve lower project risk using the Autodesk Navisworks.

Navisworks consolidate civil, architectural, structural, and MEP into one BIM model to visualize and analyze the integrated model in order to validate buildings design and construction.

**Navisworks Clash Detective, Timeliner and Animator**
Integrate 3D models from different applications such as Revit, AutoCAD, ArchiCAD, Microstation, Bentley applications, Civil 3D, 3D Plant, Inventor into a 3D model to create clash detection, construction schedules, 4D Simulations and animated visualizations.

Produce and resolve time-based clash detection reports which will minimize on-site construction change order requests.

Create timeline simulation representing 4D construction to check validity of construction schedules

Develop 3D animated visualizations of construction projects

**Prerequisites for this Autodesk Navisworks training course:**
This training is designed for users of software from multiple disciplines. A working knowledge of 3D design software is recommended. No previous Navisworks experience is needed.

## NAVISWORKS - COURSE CONTENT

**Model Navigation**

Walking through the Model

Orbit, Gravity, Viewcube, Viewpoint

Model sections

**Adjustments**

Measurements

Comments and Redlines

Hide, Move, Rotate and Scale objects

Object properties

**Group and Sort**

NWD and an NWF files within the selection tree

Search criteria to look for a specific object

Group of elements in the selection tree

Select objects in the model

Save as a selection set

Examine the actually selection

Zoom in on the model

**Clash Detective**

Clash Rules setup

Clash detective

Clash tests

Select objects to be Clashed

    Select Elements

    Clash entire models

    Clash between specific elements

Group clash Results

Clash Reports

    Viewpoints

    HTML Controls


**The Time Liner**

Simulation appearance

Tasks

    New tasks

    Assign a time frame to tasks

    Task types

Import tasks from an external source

    Microsoft Project file

Assign a selection set to a task

    Add sets into a task on a timeliner

**4D simulation**

Configure Simulation

Speed and timeframe

Simulation reports

Export simulation to video files


**The Animator**

Create Viewpoint Animation

Create an animation on the Fly

Animate objects

　　Create  an scene

　　Append objects to a scene