

Duration | 3 Days

Description:

In this courseware, using hands-on exercises that demonstrate the functionality of the Autodesk® Navisworks® Review, Simulate and Manage features, students learn how to open, review, and run object-interference checks on 3D models. Students also learn how to link to task-scheduling files and create 4D construction simulations. Using the Animator and Scripter tools, students create interactive animations. In addition, students learn how the Presenter tools can help them to create photorealistic images and animations. This courseware provides students with the skills and knowledge to use Navisworks effectively.

Prerequisites:

Before using this courseware, students should have working knowledge of 3D design and task-scheduling software.

Objectives:

After completing this course, you will be able to:

- Describe the main features and functionality of Autodesk® Navisworks®.
- Open and append 3D files of different formats and save in Navisworks format.
- Create links to object properties files and scheduling files in external databases.
- Perform visual project model reviews using the built-in review and reporting tools.
- Create construction simulations of a project model to check validity of construction schedules.
- Use Animator and Scripter to create interactive animations for presentations and demonstrations.
- Add true-to-life materials, and lighting and backgrounds to project models, to create photorealistic output.
- Perform interference detection tests between 3D files of different disciplines to check integrity of the design.

Course Outline:

Getting Started with Navisworks

- Workspace Overview
- Opening and Appending Files in Navisworks
- Saving, Merging, and Refreshing Files in Navisworks
- Database Support (Data Tools)

Review

- Navigation and the Navisworks Engine
- Selection Tree and Selecting Objects
- Hiding Objects and Overriding Materials
- Object Properties
- Measuring and Moving Objects
- Selection and Search Sets
- Viewpoints and Adding Comments and Redlining
- Animations, Sectioning, and Hyperlinks
- Comparing Models and SwitchBack
- Navisworks Real-Time Rendering

Training Facilities

Virginia Beach, VA
Richmond, VA
Roanoke, VA

Inlet Technology

192 Ballard Court
Suite 306
Virginia Beach, VA
23462

Ph: 757.496.2323
Fax: 757.496.2424

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TimeLiner

- TimeLiner Overview
- Creating Tasks and Importing Tasks from an External Project File
- TimeLiner Simulation
- Configuring and Defining a Simulation
- Simulation Export
- Time-based Clashing and the Clash Detective Report

Animator

- Animator Overview and Creating a Basic Animation
- Cameras and Camera Viewpoints
- Manipulate Geometry Objects in an Animation Set
- Section Plane Sets
- Controlling Animation Scene Playback

Scripter

- Scripter Overview
- Creating and Managing Scripts
- Events and Creating and Configuring Actions

Presenter Basics

- Presenter Overview
- Applying Materials to Model Items
- Adding Lighting Effects to a Scene
- Adding Background Effects
- Rendering Effects
- Outputting Rendered Images and Animations

Advanced Presenter Features

- Editing and Managing Materials
- Advanced Material Editing
- Ground Planes
- Individual Light Effects and Image-based Lighting
- Environment Backgrounds and Reflections
- Custom Environments
- Light Scattering
- Rich Photorealistic Content (RPC)

Clash Detective

- Clash Detective Overview
- Selecting Items to Be Clashed
- Clash-Test Settings and Rules
- Clash Results and Reporting
- Create and Save Batches of Clash Tests
- Export and Import Clash Tests
- Custom Clash Tests
- Laser-Scan Data Clashing
- Holding and Releasing Objects
- SwitchBack in the Clash Detective and Time-based Clashing

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Inlet Training Class Registration Form



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Customer Information

Company _____
Address _____
City _____ State _____ Zip _____
Primary Contact _____
Telephone _____ eMail _____

Training Class Information

Class Name _____
Class Start Date _____ Duration (# of days) _____
Student 1 _____ eMail _____
Student 2 _____ eMail _____
Student 3 _____ eMail _____
Student 4 _____ eMail _____
Student 5 _____ eMail _____
Student 6 _____ eMail _____
Student 7 _____ eMail _____
Student 8 _____ eMail _____
Student 9 _____ eMail _____
Student 10 _____ eMail _____

Payment Information

CREDIT CARD

Type (Circle One) _____ Visa _____ Mastercard _____ American Express _____
Credit Card Number _____
Expiration Date _____ 3-4 digit Verification Code _____
Name on Card _____ Amount to be Charged \$ _____
Billing Address _____

CHECK

Check Number _____ Amount \$ _____

PURCHASE ORDER

PO Number _____ Amount \$ _____
Purchasing Contact _____ Telephone _____
e-Mail _____

NOTE: Please fax copy of PO with Registration Form

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