

**Navisworks Fundamentals** will cover in detail all of the modules of Navisworks Manage and Simulate, including Publisher, Timeliner, Animator and Scriptor as well as Autodesk Rendering and Clash Detective. Students will learn to use Navisworks with hands-on exercises in class.

**Prerequisite:** Working knowledge of the Windows operating environment and a basic knowledge of the BIM Process.

## Getting Started

Product Overview, Workspace, Opening & Appending Files, Saving, Merging, & Refreshing Files, File Types

## 3D Model Review

Hiding Objects and Overriding Material, Object Properties, Measuring and Moving Objects, Selection and Search Sets, Viewpoints, Comments and Redlining, Animations, Sectioning, Links, Comparing Models, Switchback, Real-Time Rendering

## TimeLiner

TimeLiner Overview, Gantt View, Creating Tasks, Import Tasks from External Project File, TimeLiner Simulation, Configuring and Defining a Simulation, Simulation Export

## Animator

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

## Scripter

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

## Quantification

Quantification Overview, Setting Up a Quantification Project, Item and Resource Management, Model and Virtual Takeoff, Managing Takeoff Data, Analyzing Changes

## Clash Detective

Clash Detective Overview, Setting Clash Rules, Clash Results, Clash Test Reporting, Audit Checks, Export and Import Clash Tests, Custom Clash Tests, Laser Scan Data Clashing, Holding and Releasing Objects, Switchback in Clash Detective, Time Based Clashing

## Autodesk Rendering

Presenter Basics, Presenter Advanced Features

### What students are saying about our courses:

"I loved how the instructor focused the materials to our needs and uses. Great course!"  
- *Matthew Crockett,*  
*Aquaterra Environmental Solutions*

"The instructor was very knowledgeable and ensured everyone grasped the concepts before moving on. He answered all questions even if they were outside the scope of the class. Great Job!"  
- *Vern Howard,*  
*Honeywell FM&T*

\* The suggested course duration is a guideline. Course topics and timeline may be modified by the Instructor based upon the knowledge and skill level of the course participants.