

# Navisworks

## Fundamentals

## Course Guide:

### 2 Days

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### Getting Started with NavisWorks

Workspace Overview  
Opening and Appending Files in NavisWorks  
Saving, Merging, and Refreshing Files in NavisWorks

### 3D Model 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 Links  
Comparing Models and SwitchBack\  
NavisWorks Real-Time Rendering and Techniques

### TimeLiner

TimeLiner Overview  
Creating Tasks and Importing Tasks from an External Project

### File

TimeLiner Simulation  
Configuring and Defining a Simulation  
Simulation Export

### 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  
Ground Planes  
Outputting Rendered Images and Animations

### Advanced Presenter Features

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

### Clash Detective

Clash Detective Overview  
Setting Clash Rules  
Clash Results and Reporting  
Audit Checks  
Create and Save Clash Tests  
Export and Import Clash Tests  
Custom Clash Tests  
Laser-Scan Data Clashing  
Holding and Releasing Objects  
SwitchBack in the Clash Detective  
Time-based Clashing

### Data Tools

Database Support (Data Tools)

Contact:  
info@archvis.com.au  
0423688011

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