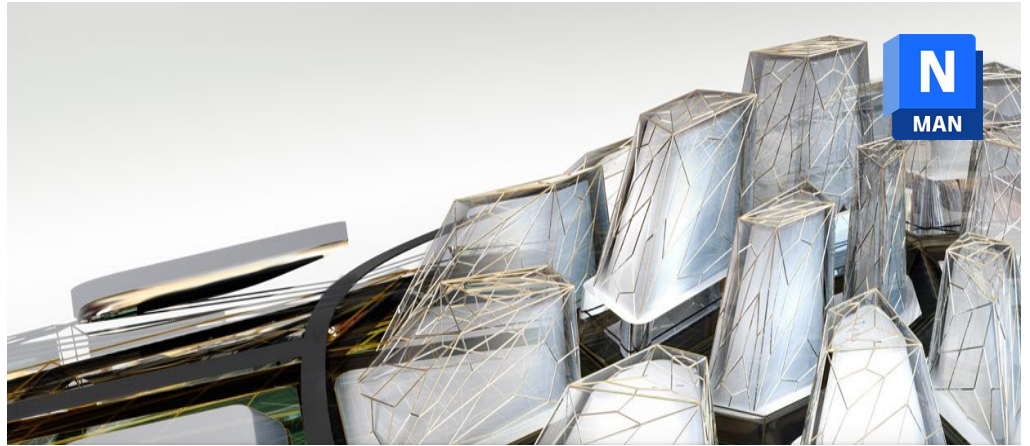


NavisWorks Essentials

Training course outline

NavisWorks complements 3D design packages such as AutoCAD and Revit, providing sophisticated project review features.

NavisWorks Essentials training provides a thorough grounding for beginners, teaching how to combine 3D models from cross disciplines into one scene, enabling effective review.



Course summary

Teaches how to use the NavisWorks Manage and NavisWorks Simulate applications to combine 3D models from cross disciplines into one scene, enabling effective review.

Delegates learn to use the TimeLiner, Animator, Scripter and Presenter tools within NavisWorks.

NavisWorks Manage users learn how to carry out Clash Detection.

Duration

Two days.

Who should attend?

Newcomers to NavisWorks and novice NavisWorks users.

Prerequisites

You should have a good working knowledge of an Autodesk application, such as AutoCAD or Revit

In-class or live online

You can attend in-person at our centres, or participate live online from your place of work or home.

To read about our approach to online training, see armada.co.uk/liveonline.

General information

Armada is a long-standing Autodesk authorised Training Centre (ATC), and our courses are accredited by Autodesk.

Courses are hosted by Autodesk Certified Instructors (ACIs) with vast experience of using the application professionally.

Whilst attending training at our centres, you'll have the use of a computer running licensed software to practice the techniques taught.

Refreshments and lunch are provided.

Course fees can be paid by card or bank transfer. We accept purchase orders from UK-registered companies and public sector organisations.

Course materials and certificate

You'll receive:

- A comprehensive training guide and practice files.
- An e-certificate confirming successful completion of an accredited *NavisWorks Essentials* course.

Method of delivery

Training is designed for the busy professional, being short and intensive and combining lecture and demonstration. Practical exercises carried out under guidance help you learn the techniques taught.

You have ample opportunity to discuss specific requirements with the trainer.

After course support

Following training, you're entitled to 30 days' email support from your trainer.

Further information

See armada.co.uk/course/navisworks.

Course syllabus

See over.

Course syllabus

Topics	Sub-topics
Getting started with NavisWorks	<ul style="list-style-type: none"> Workspace Opening and appending files Saving, merging and refreshing files About file types Database support
Visual project model reviews	<ul style="list-style-type: none"> Navigation Absolute coordinate display The NavisWorks engine Performance indicators Selection tree and selecting objects Hiding objects and overriding materials Object properties Measuring and moving objects Selection and search sets Viewpoints Comments and redlining Animations Sectioning Hyperlinks Comparing models Switchback NavisWorks real-time rendering
TimeLiner	<ul style="list-style-type: none"> TimeLiner overview Creating tasks Importing tasks from an external project file TimeLiner simulation Configuring and defining a simulation Simulation export
Animator	<ul style="list-style-type: none"> Animator overview Creating a basic animation Cameras and camera viewpoints Manipulate geometry objects in an animation set Section plane sets Controlling animation scene playback

Topics	Sub-topics
Scripter	<ul style="list-style-type: none"> Scripter overview Creating and managing scripts Events Creating and configuring actions
Presenter basics	<ul style="list-style-type: none"> Presenter overview Apply materials to model items Adding lighting effects to a scene Adding background effects Rendering effects Outputting rendered images Outputting animations (videos)
Presenter advanced features	<ul style="list-style-type: none"> Editing and managing materials Advanced material editing Ground planes Individual light effects Image-based lighting Environment backgrounds and reflections Custom environments Light scattering Rich Photorealistic Content (RPC)
Clash Detection (NavisWorks Manage only)	<ul style="list-style-type: none"> Clash Detection overview Selecting items to be clashed Clash test settings Setting clash rules Clash results Clash test reporting Audit checks Create and save batches of clash tests Export and import clash tests Custom clash tests Setting up custom clash tests Laser scan data clashing Holding and releasing objects SwitchBack in clash detective Time-based clashing