



**START YOUR
AUTODESK
NAVISWORKS
CAREER TODAY!!**

CREDO SYSTEMZ
**Autodesk Navisworks
Program**

AUTODESK NAVISWORKS

COURSE SYLLABUS

Duration : 20 hrs

✦ **Module 1: Introduction to Navisworks**

- Overview of Navisworks and its role in BIM coordination
- Understanding Navisworks file formats (NWD, NWF, NWC)
- Interface, workspace, and navigation tools
- Importing and opening 3D models from Revit, AutoCAD, etc.
- Understanding the difference between Navisworks Manage, Simulate, and Freedom

✦ **Module 2: Working with Models**

- Combining multiple discipline models (Architecture, Structure, MEP)
- Managing large models efficiently
- Using Append, Merge, and Refresh commands
- Managing model hierarchy and selection tree
- Model units and coordinate system alignment

✦ **Module 3: Navigation Tools**

- Using navigation bar tools (walk, orbit, fly)
- Viewpoints, sections, and clipping planes

- Creating saved viewpoints
- Setting up perspectives and camera paths
- Managing view settings and navigation aids

✦ **Module 4: Review and Markup Tools**

- Measuring distances, angles, and areas
- Adding redlines, tags, and comments
- Using the Review tab and markup tools for team collaboration
- Comparing revisions of models
- Creating section cuts and isolating components

✦ **Module 5: Selection and Search Sets**

- Understanding selection and search sets
- Creating and managing search sets for model filtering
- Using selection inspector
- Applying properties and metadata for selection
- Exporting and reusing search sets

✦ **Module 6: TimeLiner (4D Simulation)**

- Introduction to 4D scheduling concepts
- Importing project schedules (MS Project, Primavera P6, Excel)
- Linking model elements to schedule tasks
- Simulating construction sequences
- Creating and exporting 4D construction animations
- Analyzing project phasing and construction visualization

✦ **Module 7: Clash Detection (Coordination & Analysis)**

- Understanding clash detection and its importance
- Setting up clash tests between disciplines
- Configuring clash rules and tolerances
- Reviewing, grouping, and assigning clashes
- Generating clash reports
- Coordination workflow between Navisworks and Revit

✦ **Module 8: Quantification (5D BIM Basics)**

- Introduction to model-based quantity takeoff

- Setting up quantification workbook and catalogs
- Manual vs. automated takeoff
- Creating formulas and cost estimation
- Exporting takeoff reports

✦ **Module 9: Animation & Visualization**

- Creating animations and walkthroughs
- Managing camera paths and keyframes
- Applying materials, lighting, and realistic effects
- Rendering animations and still images
- Using section animations for presentations

✦ **Module 10: Collaboration & Output**

- Working with NWF and NWD files for coordination
- Exporting clash reports and viewpoints
- Integrating with BIM 360 / Autodesk Docs
- Best practices for team-based coordination
- Sharing models and review outputs

CHENNAI

VELACHERY

New # 30, Old # 16A, Third Main Road, Rajalakshmi Nagar, Velachery, (Opp. to Murugan Kalyana Mandapam), Chennai – 600 042.

 +91 98844 12301

OMR

Plot No.8, Vinayaga Avenue, Rajiv Gandhi Salai, (OMR), Okkiampettai, (Behind Okkiyampet Bus Stop) Chennai – 600 097.

 +91 96001 12302

OVERSEAS

USA

Houchin Drive, Franklin, TN -37064. Tennessee

UAE

Sima Electronic Building, LLH Opposite, Electra Street – Abu Dhabi