

## Course Details:

**Duration:** 2 Days (varies)

**Prerequisite:** Completion of "Inventor Introduction"; familiarity with finite element analysis terms and concepts

**Courseware:** Included

**Achievement:** Certificate

**Time:** 8:30 a.m. - 4:30 p.m.

**OAA Credits:** 14 Hours

## General Information:

**Locations:** All courses are offered online, on-site, or in-person at SolidCAD training facilities across Canada, including:

Burnaby, BC  
Calgary, AB  
Edmonton, AB  
Regina, SK  
Winnipeg, MB  
Richmond Hill, ON  
Ottawa, ON  
Montreal, QC  
Quebec City, QC  
Hanwell, NB  
Halifax, NS

## Pricing, Registration &

**Scheduling:** Please contact our training coordinator at 1-877-438-2231 x227 or via email at [training@solidcad.ca](mailto:training@solidcad.ca)

## Complete course listing:

[www.solidcad.ca/training](http://www.solidcad.ca/training)

## Course Description:

Autodesk Nastran In-CAD Essentials program introduces designers to the add-on environment inside Autodesk Inventor for performing advanced finite element analysis to help users understand how their designs will perform. Linear and nonlinear static analyses as well as vibration-related simulations are covered.

Upon completion, users will have the ability to confidently validate their digital prototypes and make early decisions to optimize their designs.

## Learning Objectives:

- Introduction to the Autodesk Nastran In-CAD environment
- Idealizations and materials (linear, nonlinear and composites)
- Analyses for static (linear & nonlinear) and dynamic models (frequency and transient response)
- Boundary conditions (loads & constraints)
- Connector elements (rod, cable, spring, rigid body, bolt)
- Surface Contact definition
- Global and local mesh settings
- Running an Autodesk Nastran In-CAD analysis (Output browser)
- Post-processing results (plots and charts)
- Introduction to Nastran In-CAD iLogic Automation (IIA)

## Supplemental Learning:

- Autodesk Fusion 360 Ultimate – Simulation
- Autodesk Inventor Simulation
- Autodesk Inventor Intermediate
- Autodesk Inventor Design Automation
- Autodesk Inventor Sheet Metals
- Autodesk Tube and Pipe