

## COURSE

### Dynamic analysis in NX Nastran

<b>Level</b>	Advanced
<b>Duration</b>	1 day
<b>Language</b>	English or Dutch
<b>Location</b>	Delft, or on-site

#### Description

The **Dynamic Analysis** course introduces the dynamic capabilities available in NX Nastran. It covers the fundamental methods for solving for dynamic response, focusing on modal analysis. There is an emphasis on practical applications and enhancing the students' engineering judgment with respect to dynamic response. The fundamentals of structural dynamics theory are reviewed and the numerical methods used to solve them are presented.

The course covers the linear dynamic response capabilities of NX Nastran, including normal modes analysis, transient and frequency response, residual vectors, and enforced motion. A variety of hands-on workshop exercises supplement the lecture content. The class is focused on NX Nastran and most of the material applies independently of pre- or postprocessor. However, additional material is available for demonstration of use with Femap.

#### Aim of training

After the training, the trainee is capable of performing a dynamic analysis with NX Nastran and to evaluate the results independently.

#### Topics

- Normal Modes Analysis
- Model Mass
- Damping
- Transient Analysis
- Frequency Response Analysis
- Residual Vectors
- Enforced Motion

#### Who should attend?

This course is intended for designers, engineers and finite element analysts who will be using NX Nastran to perform dynamic analyses to predict structural behavior under steady state and transient conditions.

**Interested? Sign up on [www.femto.eu](http://www.femto.eu) or send your training request to [info@femto.nl](mailto:info@femto.nl).**

#### About us

At Femto Engineering we help companies achieve their product innovation goals with FEA & CFD consulting, software, training, support, deployment and R&D. We are the CAE partner of Siemens PLM Software in the Benelux and an authorized distributor for Femap, NX Nastran, Simcenter 3D and SDC verifier.

#### Directions

Our address is: Oude Delft 137, Delft.  
By car: follow the parking signs to the Phoenixgarage (Phoenixstraat 29). Leave the "centrum" exit from the parking and turn left. Directly after the gate, we're in the first building on your right.  
When you arrive by train, it's a 5 minute walk via the Westvest and the Binnenwatersloot to the Oude Delft.

