

**NX Nastran 10.0**

**NX Nastran Rotor Dynamic Analysis with Femap (G2H)**

Course Code NXNAS440  
User Level Intermediate  
Language English  
Price \$1,100.00 (USD) (Price may not include taxes applicable to your billing region)  
Training Center Duration 1 Day

For More Information Learning and Adoption Services, USA ([training.usa.plm@siemens.com](mailto:training.usa.plm@siemens.com))

**(G2H) Guaranteed to Hold.** Select [Here](#) for more information about G2H courses.

The **NX Nastran Rotor Dynamics (Femap)** course introduces the rotor dynamics analysis capabilities of NX Nastran. It covers the solution of rotor dynamic problems in both rotating and fixed coordinates, including complex eigenvalues (Campbell diagrams), synchronous and asynchronous frequency response and synchronous and asynchronous time response. Examples and workshops give the student practical hands-on experience. The class is focused on NX Nastran and all of the material applies independently of pre- or postprocessor. Where appropriate Femap is used for pre-processing and visualization of results.

**WHO SHOULD ATTEND**

This course is intended for engineers and finite element analysts who will be using NX Nastran to perform analysis of rotating systems to predict critical frequencies and dynamic response.

**COURSE TOPICS**

- Understanding rotor dynamics in rotating and fixed coordinates
- Complex modes, critical frequencies and Campbell Diagrams
- Synchronous and Asynchronous Frequency Response
- Synchronous and Asynchronous Transient Response
- Frequency Dependent and Nonlinear Simulation

**PREREQUISITES**

Required courses:

- NX Nastran Introduction to Finite Element Analysis with Femap (G2H) (NXNAS110)
- NX Nastran Introduction to Dynamic Analysis with Femap (G2H) (NXNAS120)
- NX Nastran Advanced Dynamic Analysis with Femap (G2H) (NXNAS220)

Participant needs to have a basic understanding of finite element analysis principles and a working knowledge of Nastran and NX.

**PROVIDED COURSE MATERIAL**

- Student Guide
- Activity Material

## Course Description

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